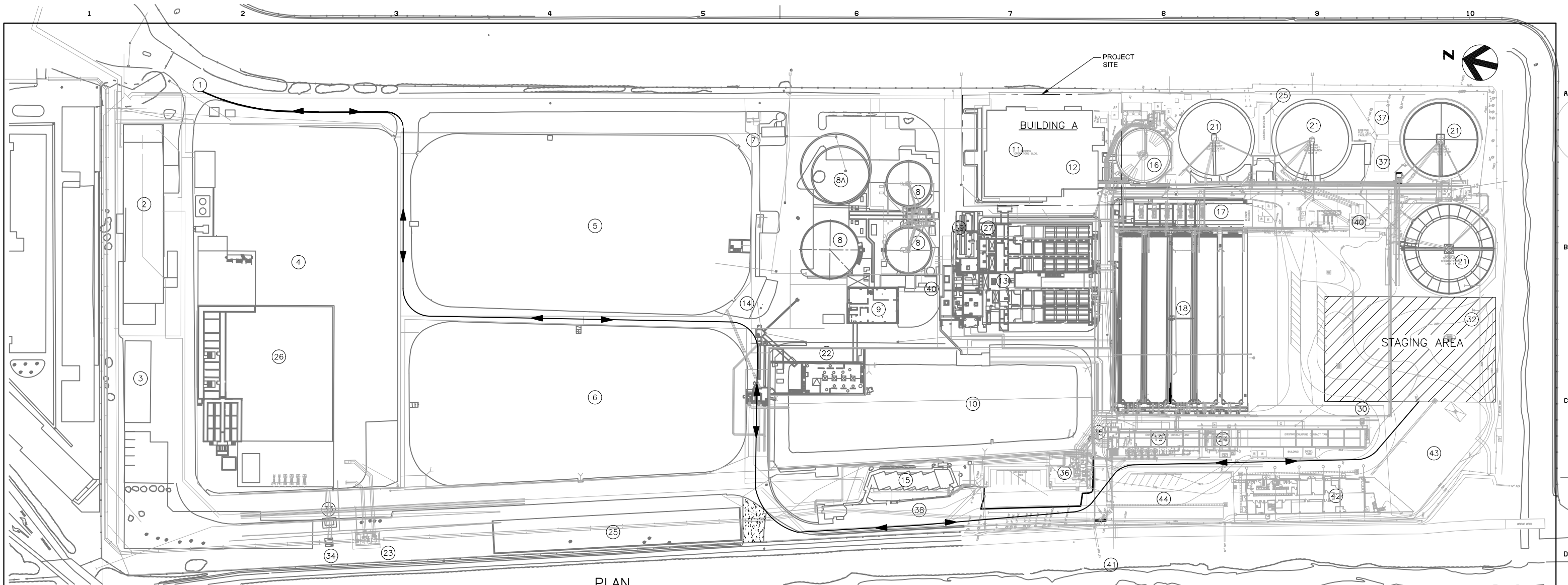


1 | 42



KEY NOTE:

- 1 ENTRANCE GATE
- 2 MF/RO TREATMENT
- 3 MAINTENANCE STORAGE
- 4 HOLDING BASIN 4
- 5 HOLDING BASIN 3
- 6 HOLDING BASIN 2
- 7 EAST AMADOR PUMP STATION
- 8 EXISTING DIGESTERS
- 8A FUTURE DIGESTER
- 9 BUILDING D
- 10 HOLDING BASIN 1

- 11 OPERATIONS BUILDING
- 12 COGENERATION BUILDING
- 13 PRIMARY SEDIMENTATION STRUCTURE
- 14 SEPTAGE HAULING STATION
- 15 HYPOCHLORITE STORAGE
- 16 DISSOLVED AIR FLOTATION THICKENER (DAFT)
- 17 BLOWER BUILDING
- 18 AERATION STRUCTURE
- 19 CHLORINE CONTACT TANK
- 21 SECONDARY SEDIMENTATION
- 22 BAR SCREEN BUILDING
- 23 BASIN 4 DIVERSION STRUCTURE
- 24 NEW MCC_K/SAMPLE BUILDING
- 25 BIOFILTERS
- 26 DERWA FACILITIES
- 27 PLANT BENCHMARK EL 332.06

- 30 RAS CHLORINATION DIFFUSER
- 32 CONTRACTOR STAGING AND PARKING AREA
- 33 FUEL STATION
- 34 HOLDING BASIN 4 DIVERSION STRUCTURE
- 35 FINAL EFFLUENT PUMPING STATION
- 36 MF FEED PUMPING STATION
- 37 FUEL CELL FACILITY
- 38 HYPOCHLORITE DELIVERY
- 39 GRIT PICKUP LOCATION
- 40 FERRIC CHLORIDE FACILITY
- 41 EFFLUENT OUTLET STRUCTURE
- 42 MAINTENANCE BUILDING I
- 43 MAINTENANCE BUILDING II
- 44 CART STORAGE 1

PLAN
1" = 60'

LEGEND:

CONSTRUCTION TRAFFIC (TRAVEL DIRECTION INDICATED)

NOTES:

- 1. MAINTAIN ROAD ACCESS TO EXISTING FACILITIES THROUGHOUT CONSTRUCTION.
- 2. THE CONTRACTOR SHALL CONTROL DUST AND MUD AS SPECIFIED IN SECTION 01560.

Beecher Engineering, Inc.



DATE

REVISIONS AND RECORD OF ISSUE

NO. BY CK APP

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
	PROJ. MGR.	M. NAKAMURA
RECOM'D	D. GILL OPERATIONS DIRECTOR	
	S. DELIGHT DISTRICT ENGINEER	

REVIEW	PLNNG./DEVL.	N/A
	FIELD OPS.	N/A
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
SCALE 1"=60'		DATE 10-5-26



DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515
WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

SITE KEY PLAN

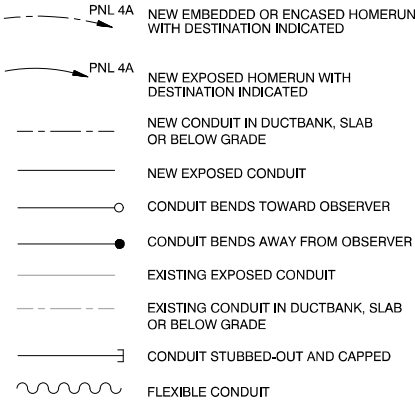
CIP NO. 24-P044

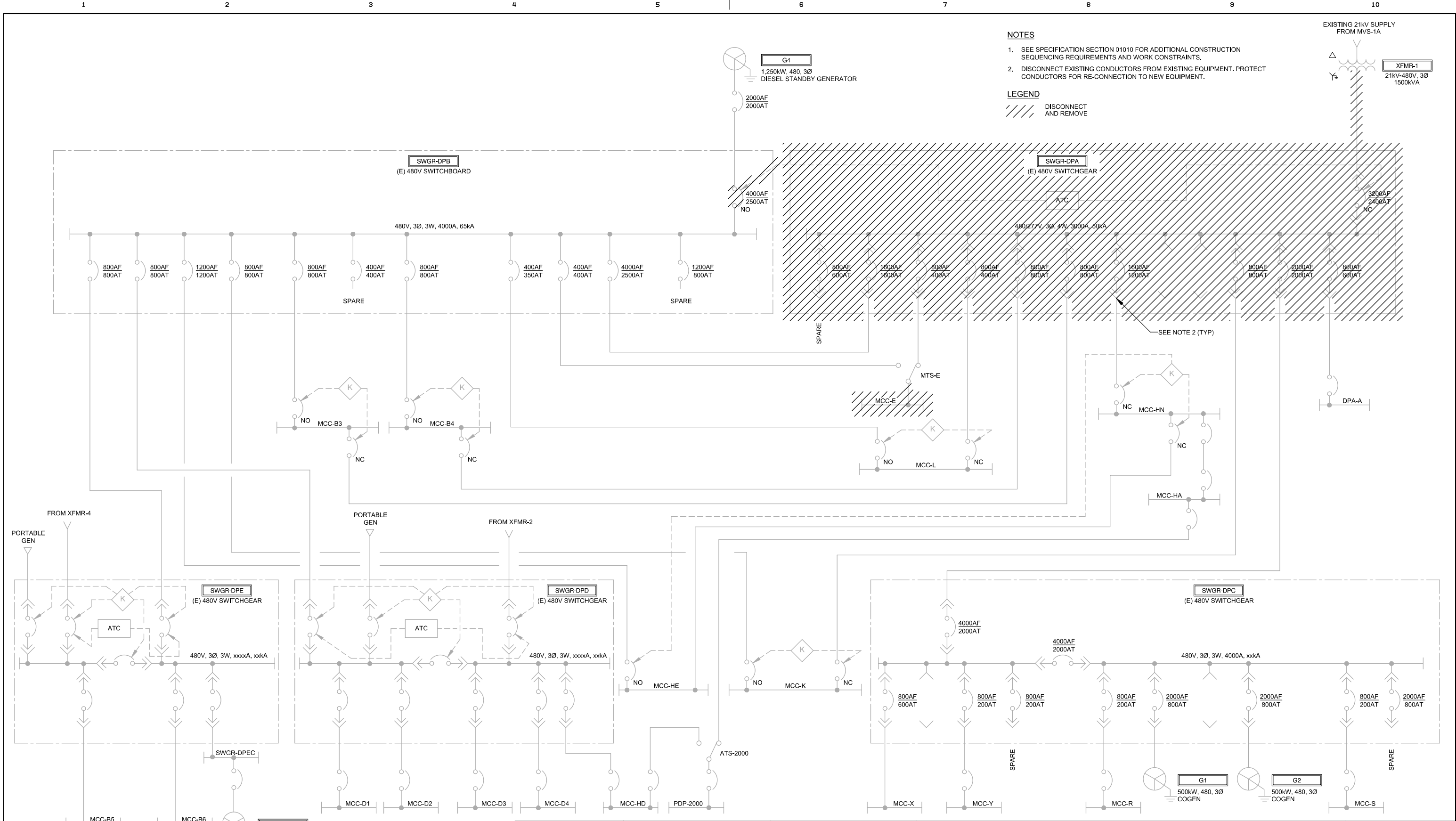
G003

342

GENERAL NOTES:

1. ALL LIGHTING SWITCHES, CONVENIENCE RECEPTACLES, MANUAL STARTERS, CONTROL STATIONS, DISCONNECT SWITCHES, AND THERMOSTATS SHALL BE MOUNTED AT 48" ABOVE FINISHED FLOOR UNLESS OTHERWISE SPECIFIED OR INDICATED ON THE DRAWINGS.
2. WALL MOUNTED PANELS AND EQUIPMENT SHALL BE STRUCTURALLY SUPPORTED BY PREFORMED VERTICAL CHANNELS.
3. ALL OUTDOOR ENCLOSURES SHALL BE NEMA 4X UNLESS NOTED OTHERWISE.
4. NOT ALL EQUIPMENT INTERCONNECTIONS ARE SHOWN ON THE FLOOR PLANS. REFER TO ALL SCHEMATIC DIAGRAMS, CONTROL DIAGRAMS, SINGLE LINE DIAGRAMS AND SPECIFICATIONS FOR ADDITIONAL FIELD WIRING REQUIRED.
5. FOR MOTORS SPECIFIED WITH SPACE HEATERS, CONTROL POWER TRANSFORMERS SHALL HAVE ADEQUATE CAPACITY TO HANDLE THE EXTRA RESISTIVE LOAD AS REQUIRED.
6. ALL POWER CONDUIT RUNS SHALL CONTAIN A SEPARATE GROUNDING CONDUCTOR (SIZED PER NEC) WHETHER OR NOT SHOWN ON THE PLANS.
7. ALL DEVICES SUCH AS PUSHBUTTON STATIONS, ETC. IN ADDITION TO SPECIFIC REQUIREMENTS OUTLINED HEREIN, SHALL HAVE EXTRA CORROSION PROTECTION HYPALON PROTECTION BOOTS HAVING 316 STAINLESS STEEL INSERT RING OR EQUAL.
8. COORDINATE ALL CONDUIT STUB-UP LOCATIONS INTO ELECTRICAL EQUIPMENT WITH ACCEPTED VENDOR DRAWINGS.
9. COORDINATE ALL NEW BELOW-GRADE DUCTBANK RUNS WITH EXISTING PIPING AND UTILITIES.



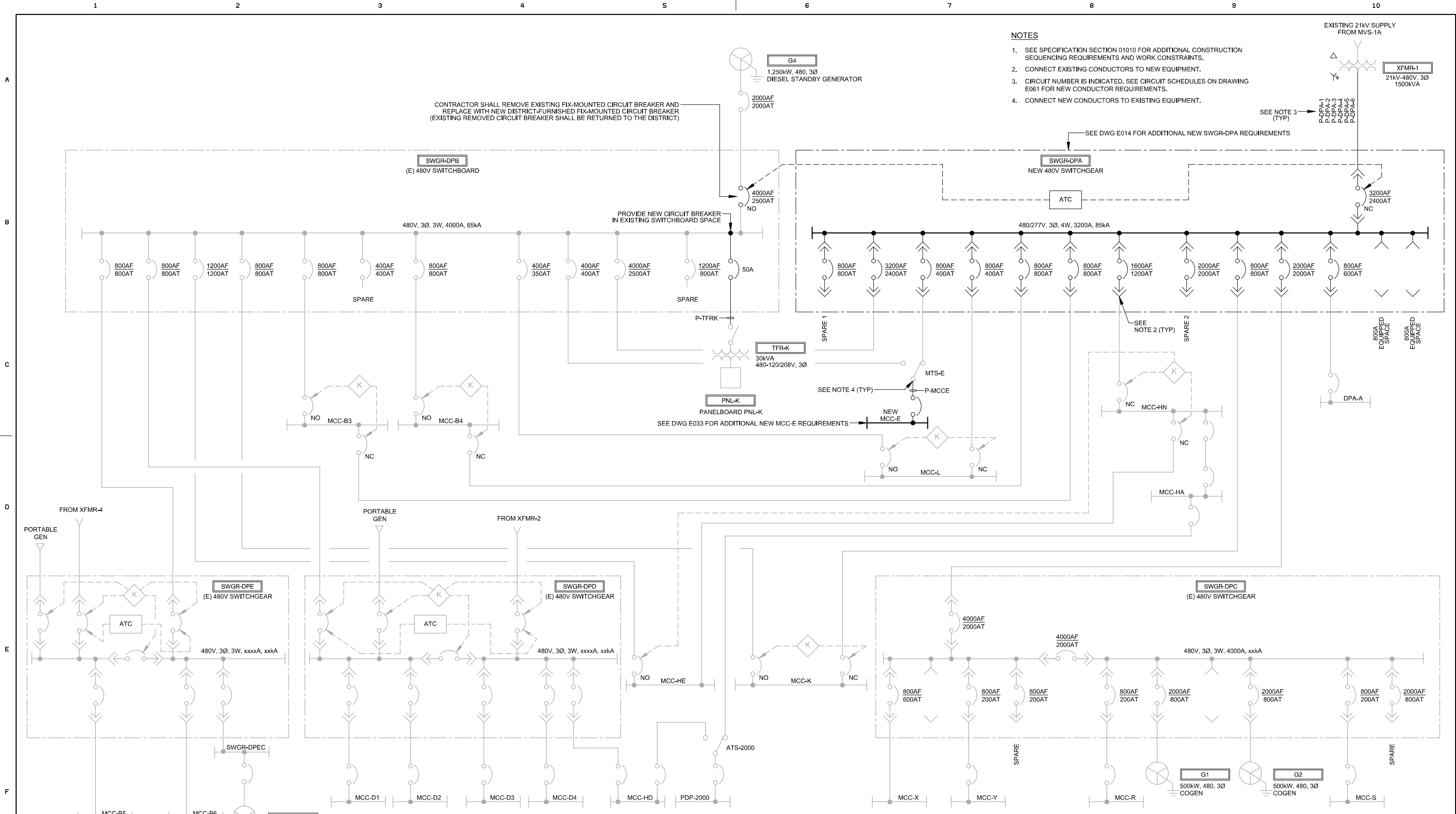


- NOTES**
- SEE SPECIFICATION SECTION 01010 FOR ADDITIONAL CONSTRUCTION SEQUENCING REQUIREMENTS AND WORK CONSTRAINTS.
 - DISCONNECT EXISTING CONDUCTORS FROM EXISTING EQUIPMENT. PROTECT CONDUCTORS FOR RE-CONNECTION TO NEW EQUIPMENT.

LEGEND

DISCONNECT AND REMOVE

		DATE				REVISIONS AND RECORD OF ISSUE				NO.		BY	CK	APP	DESIGN DRAWN BY BEI DESIGN BY TB CHECKED BY BEI PROJ. MGR. M. NAKAMURA D. GILL OPERATIONS DIRECTOR S. DELIGHT DISTRICT ENGINEER	REVIEW PLNNG./DEVL. N/A FIELD OPS. N/A WWTP OPS. MECH./MAINT. ELECT./INSTR.	SCALE N/A	DATE 10-5-26	DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515 WWTP ELECTRICAL IMPROVEMENTS - PHASE 1	CIP NO. 24-P044	E011 542



- NOTES
- 1. SEE SPECIFICATION SECTION 01010 FOR ADDITIONAL CONSTRUCTION SEQUENCING REQUIREMENTS AND WORK CONSTRAINTS.
 - 2. CONNECT EXISTING CONDUCTORS TO NEW EQUIPMENT.
 - 3. CIRCUIT NUMBER IS INDICATED. SEE CIRCUIT SCHEDULES ON DRAWING E061 FOR NEW CONDUCTOR REQUIREMENTS.
 - 4. CONNECT NEW CONDUCTORS TO EXISTING EQUIPMENT.

CONTRACTOR SHALL REMOVE EXISTING FIX-MOUNTED CIRCUIT BREAKER AND REPLACE WITH NEW DISTRICT-FURNISHED FIX-MOUNTED CIRCUIT BREAKER (EXISTING REMOVED CIRCUIT BREAKER SHALL BE RETURNED TO THE DISTRICT)

SEE NOTE 3 (TYP)

SEE DWG E014 FOR ADDITIONAL NEW SWGR-DPA REQUIREMENTS

SEE DWG E033 FOR ADDITIONAL NEW MCC-E REQUIREMENTS

SEE NOTE 2 (TYP)

SEE NOTE 4 (TYP)



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGN	RECOM'D
DRAWN BY BEI	
DESIGN BY TB	
CHECKED BY BEI	
PROJ. MGR. M. NAKAMURA	
D. GILL OPERATIONS DIRECTOR	
S. DELIGHT DISTRICT ENGINEER	

PLNNG./DEVL.	FIELD OPS.	WWTP OPS.	MECH./MAINT.	ELECT./INSTR.
N/A	N/A			

SCALE	DATE
N/A	10-5-26



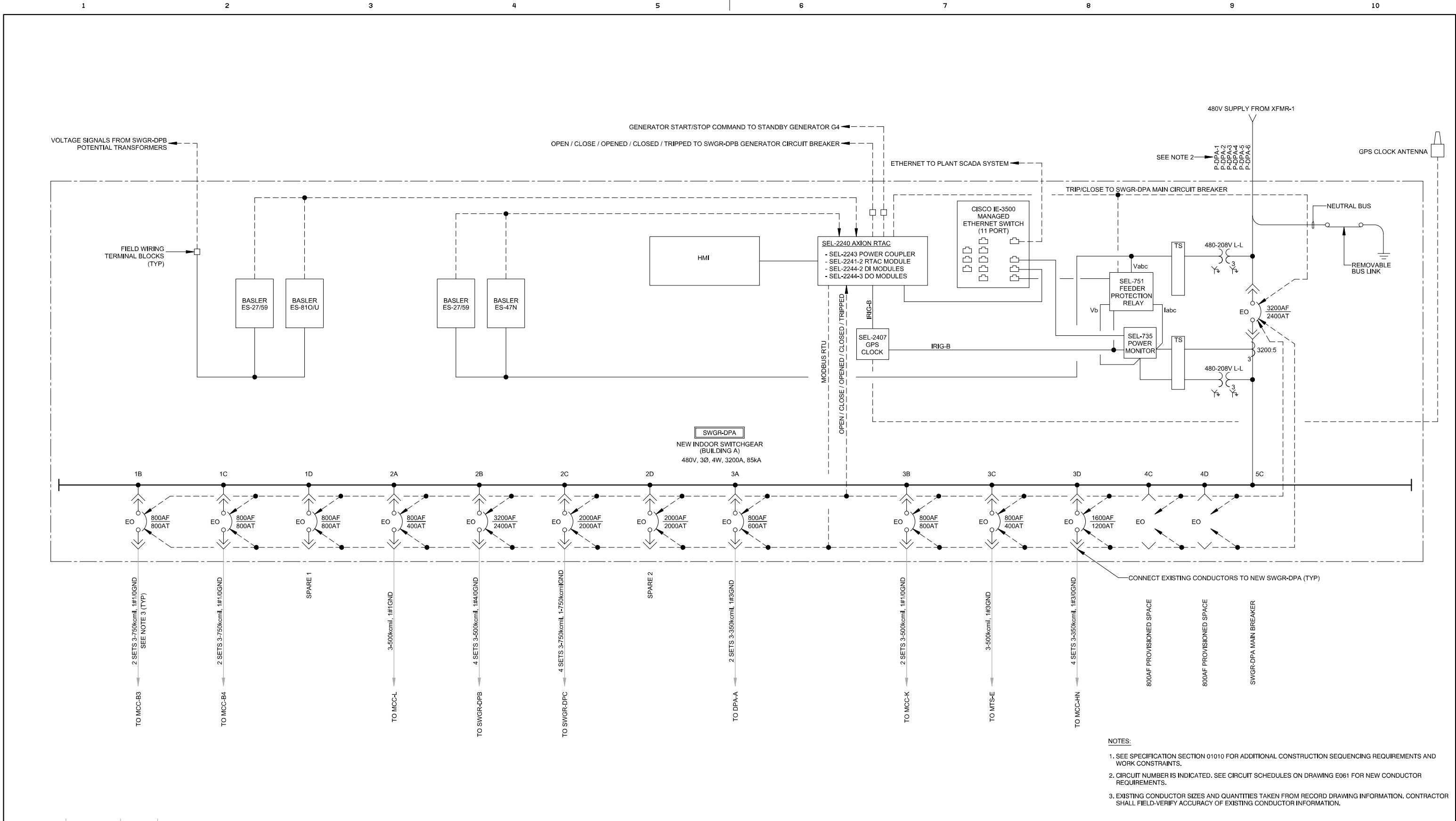
DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515
WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

PARTIAL PLANT MAIN SINGLE LINE DIAGRAM - MODIFICATIONS

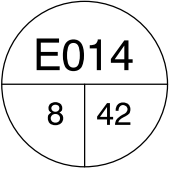
CIP NO.
24-P044

E013
7 42

LINE IS 2 INCHES AT FULL SCALE
IF NOT 2 INCHES, SCALE ACCORDINGLY

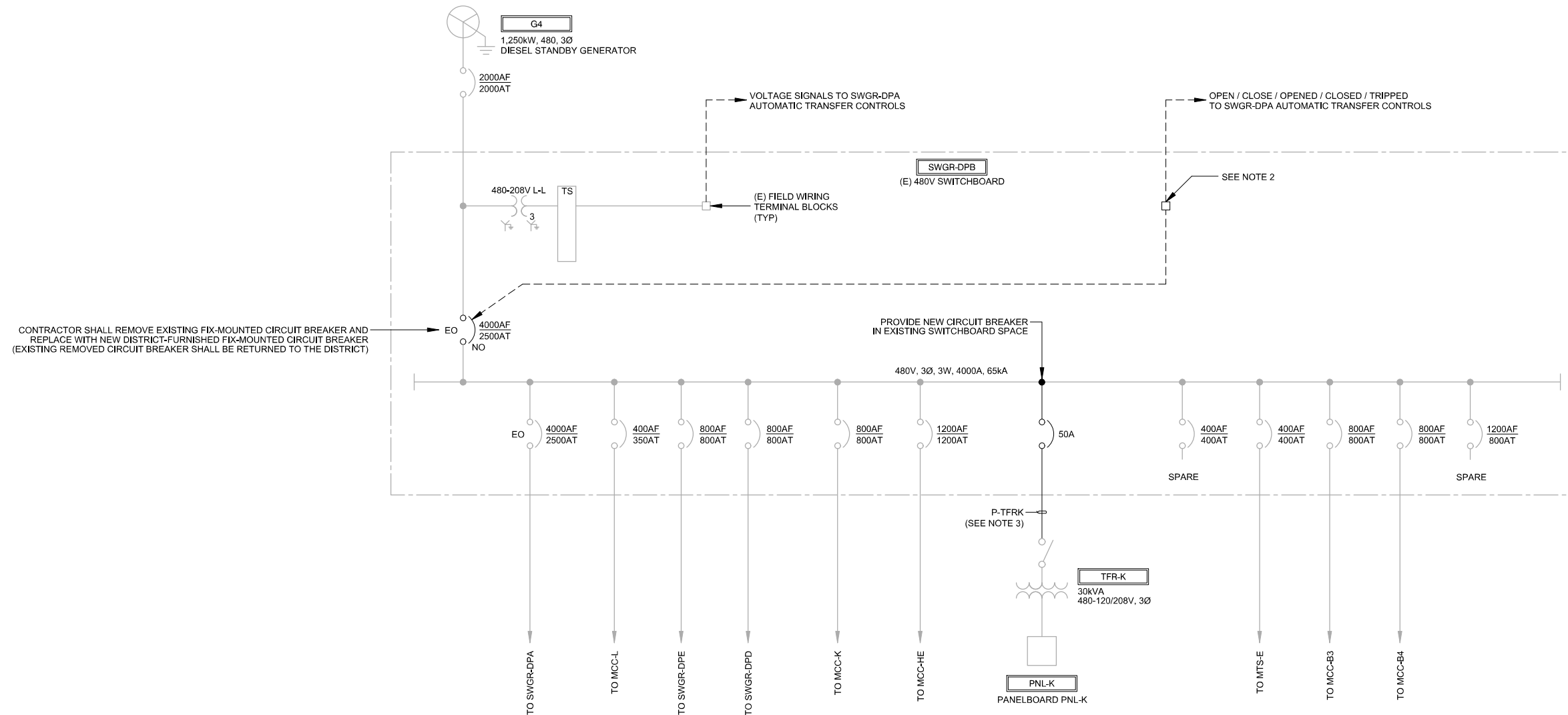


- NOTES:
- 1. SEE SPECIFICATION SECTION 01010 FOR ADDITIONAL CONSTRUCTION SEQUENCING REQUIREMENTS AND WORK CONSTRAINTS.
 - 2. CIRCUIT NUMBER IS INDICATED. SEE CIRCUIT SCHEDULES ON DRAWING E061 FOR NEW CONDUCTOR REQUIREMENTS.
 - 3. EXISTING CONDUCTOR SIZES AND QUANTITIES TAKEN FROM RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD-VERIFY ACCURACY OF EXISTING CONDUCTOR INFORMATION.

			DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP	DESIGN	DRAWN BY	BEI	PLNNG./DEVL.	N/A	FIELD OPS.	N/A	WWTP OPS.	MECH./MAINT.	ELECT./INSTR.	SCALE	N/A	DATE	10-5-26	
										DESIGN BY	TB		REVIEW		WWTP OPS.					MECH./MAINT.		ELECT./INSTR.	
									RECOM'D	CHECKED BY	BEI	PROJ. MGR.	M. NAKAMURA										
										D. GILL OPERATIONS DIRECTOR S. DELIGHT DISTRICT ENGINEER													
												DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515				WWTP ELECTRICAL IMPROVEMENTS - PHASE 1				CIP NO. 24-P044			
																							
												NEW SWITCHGEAR SWGR-DPA SINGLE LINE DIAGRAM											

NOTES

1. SEE SPECIFICATION SECTION 01010 FOR ADDITIONAL CONSTRUCTION SEQUENCING REQUIREMENTS AND WORK CONSTRAINTS.
2. PROVIDE NEW FIELD WIRING TERMINAL BLOCKS WITHIN EXISTING SWITCHBOARD AS REQUIRED FOR TERMINATION OF NEW CONDUCTORS.
3. CIRCUIT NUMBER IS INDICATED. SEE CIRCUIT SCHEDULES ON DRAWING E061 FOR NEW CONDUCTOR REQUIREMENTS.

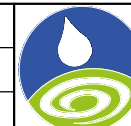


LINE IS 2 INCHES
AT FULL SCALE

IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
RECOMMEND	PROJ. MGR.	M. NAKAMURA
		D. GILL
		OPERATIONS DIRECTOR
		S. DELIGHT
		DISTRICT ENGINEER

REVIEW	PLNNG./DEVL. N/A	
	FIELD OPS. N/A	
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
SCALE N/A		DATE 10-5-26



DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515
WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

CIP NO. 24-P044

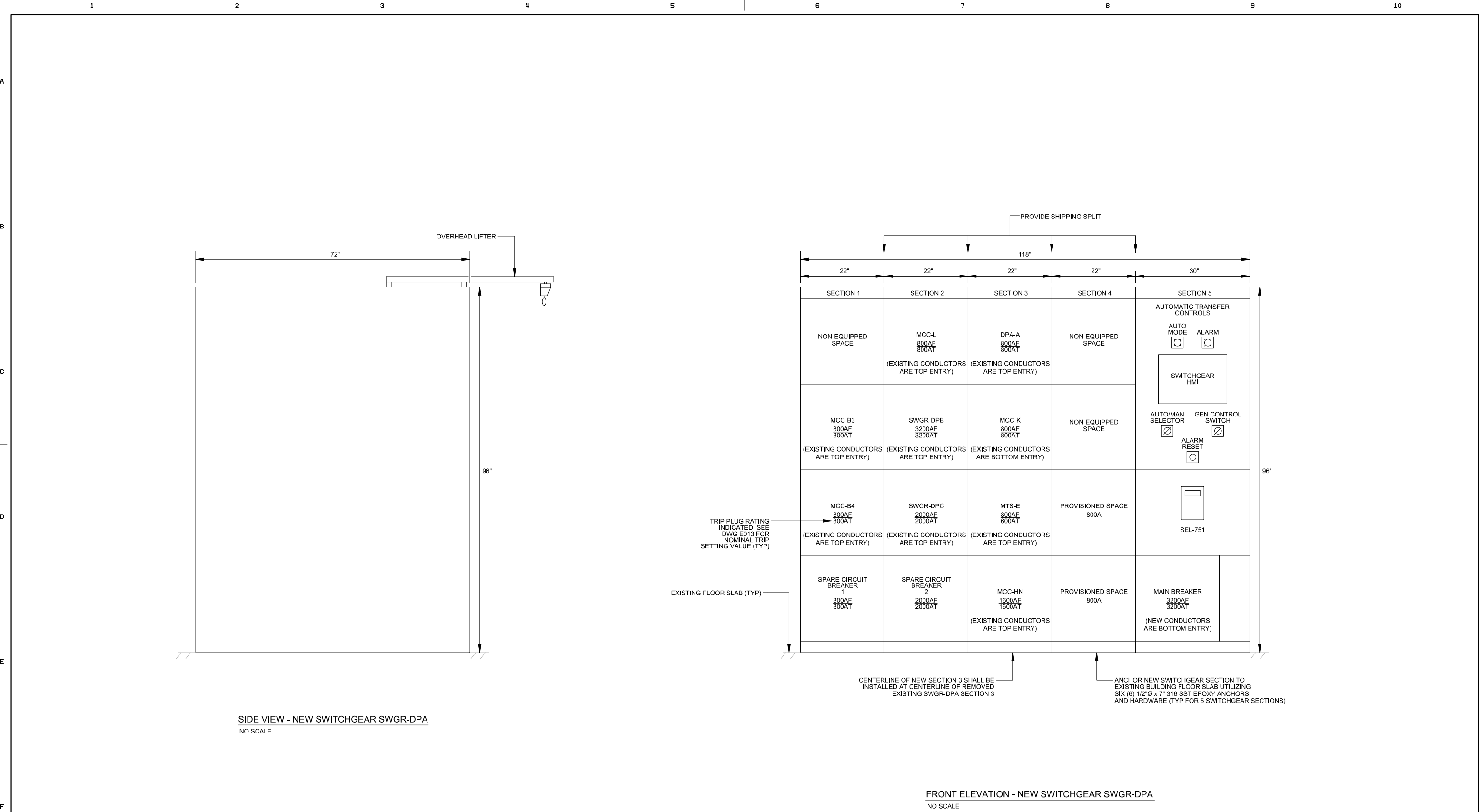
EXISTING SWITCHBOARD SWGR-DPB SINGLE LINE DIAGRAM - MODIFICATIONS

E015

42



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP
------	-------------------------------	-----	----	----	-----



LINE IS 2 INCHES
AT FULL SCALE
IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
	PROJ. MGR.	M. NAKAMURA
RECOM'D	D. GILL OPERATIONS DIRECTOR	
	S. DELIGHT DISTRICT ENGINEER	

REVIEW	PLNNG./DEVL.	N/A
	FIELD OPS.	N/A
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
SCALE		N/A
DATE		10-5-26



DUBLIN SAN RAMON SERVICES DISTRICT

7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515

WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

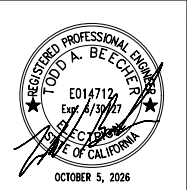
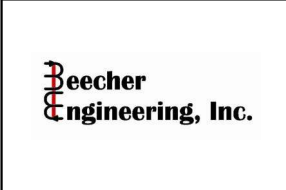
NEW SWITCHGEAR SWGR-DPA

FRONT AND SIDE ELEVATIONS

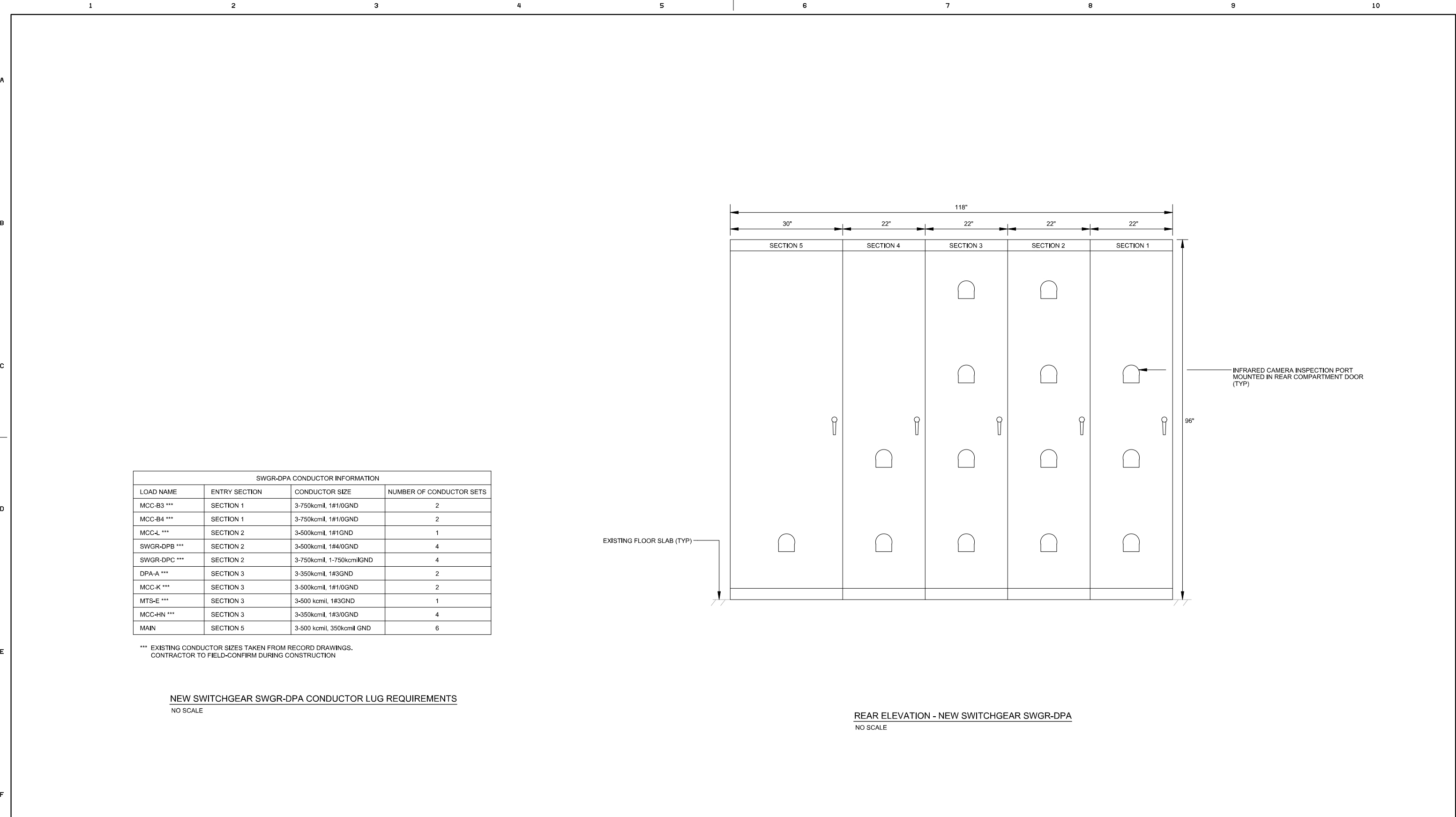
CIP NO. 24-P044

E016

1042



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP		

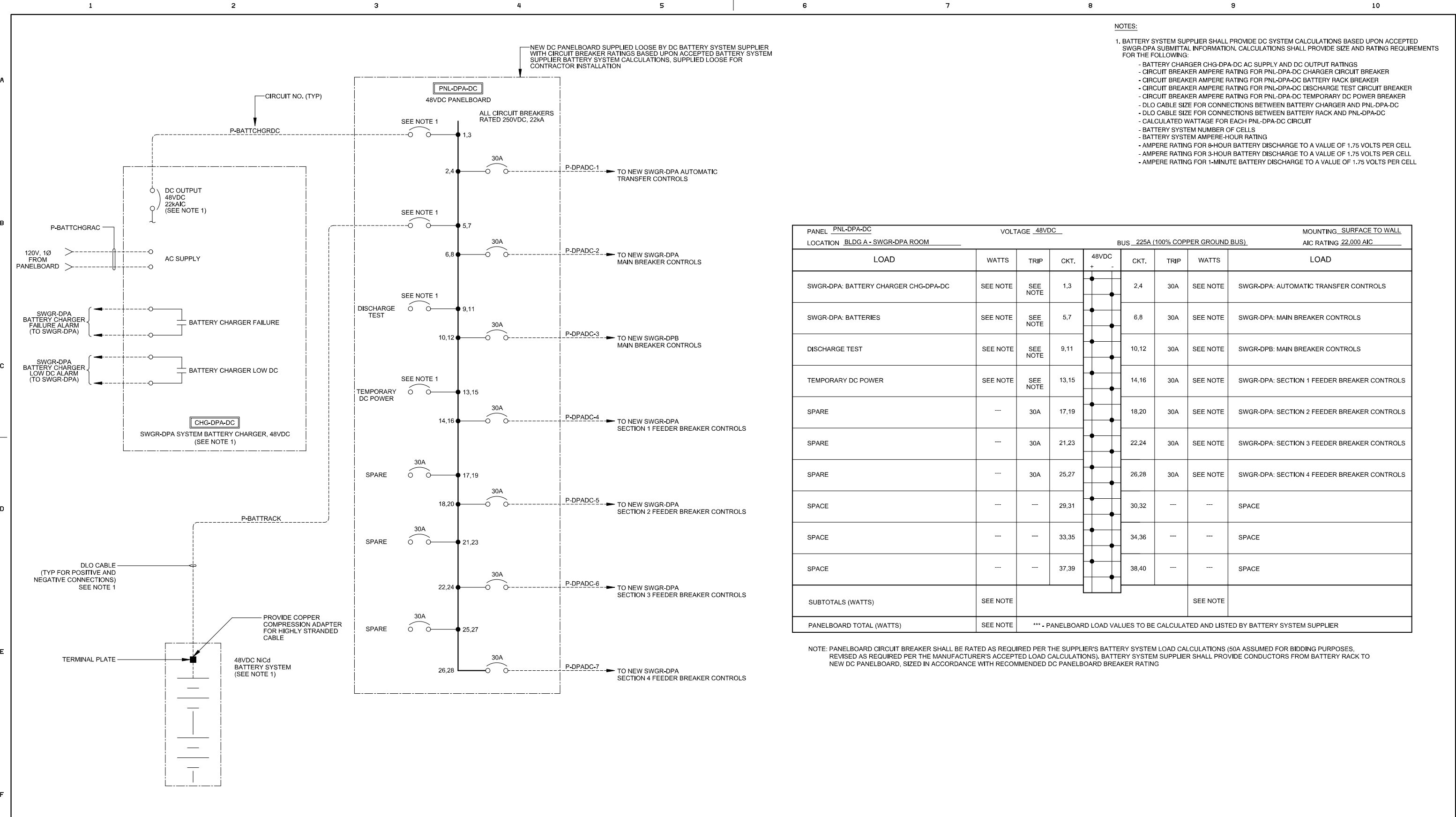


1 2 3 4 5 6 7 8 9 10 A B C D E F		LINE IS 2 INCHES AT FULL SCALE IF NOT 2 INCHES, SCALE ACCORDINGLY		DESIGN	DRAWN BY BEI	PLNNG./DEVL. N/A	DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515 WWTP ELECTRICAL IMPROVEMENTS - PHASE 1 NEW SWITCHGEAR SWGR-DPA REAR ELEVATION	CIP NO. 24-P044						
		DESIGN	DESIGN BY TB	FIELD OPS. N/A										
		DESIGN	CHECKED BY BEI	WWTP OPS.										
		DESIGN	PROJ. MGR. M. NAKAMURA	MECH./MAINT.										
Beecher Engineering, Inc.	REGISTERED PROFESSIONAL ENGINEER 1000 A. BEECHER E014712 Exp. 12/31/2026 STATE OF CALIFORNIA OCTOBER 5, 2026	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP	RECOM'D	D. GILL OPERATIONS DIRECTOR	ELECT./INSTR.	SCALE N/A	DATE 10-5-26	NEW SWITCHGEAR SWGR-DPA REAR ELEVATION	E017 11 42
								RECOM'D	S. DELIGHT DISTRICT ENGINEER					
								RECOM'D						
								RECOM'D						

CIP NO. 24-P044

E018

12 42



PANEL PNL-DPA-DC				VOLTAGE 48VDC				MOUNTING SURFACE TO WALL			
LOCATION BLDG A - SWGR-DPA ROOM				BUS 225A (100% COPPER GROUND BUS)				AIC RATING 22,000 AIC			
LOAD	WATTS	TRIP	CKT.	48VDC	48VDC	CKT.	TRIP	WATTS	LOAD		
SWGR-DPA: BATTERY CHARGER CHG-DPA-DC	SEE NOTE	SEE NOTE	1,3	+	-	2,4	30A	SEE NOTE	SWGR-DPA: AUTOMATIC TRANSFER CONTROLS		
SWGR-DPA: BATTERIES	SEE NOTE	SEE NOTE	5,7	+	-	6,8	30A	SEE NOTE	SWGR-DPA: MAIN BREAKER CONTROLS		
DISCHARGE TEST	SEE NOTE	SEE NOTE	9,11	+	-	10,12	30A	SEE NOTE	SWGR-DPB: MAIN BREAKER CONTROLS		
TEMPORARY DC POWER	SEE NOTE	SEE NOTE	13,15	+	-	14,16	30A	SEE NOTE	SWGR-DPA: SECTION 1 FEEDER BREAKER CONTROLS		
SPARE	---	30A	17,19	+	-	18,20	30A	SEE NOTE	SWGR-DPA: SECTION 2 FEEDER BREAKER CONTROLS		
SPARE	---	30A	21,23	+	-	22,24	30A	SEE NOTE	SWGR-DPA: SECTION 3 FEEDER BREAKER CONTROLS		
SPARE	---	30A	25,27	+	-	26,28	30A	SEE NOTE	SWGR-DPA: SECTION 4 FEEDER BREAKER CONTROLS		
SPACE	---	---	29,31	+	-	30,32	---	---	SPACE		
SPACE	---	---	33,35	+	-	34,36	---	---	SPACE		
SPACE	---	---	37,39	+	-	38,40	---	---	SPACE		
SUBTOTALS (WATTS)	SEE NOTE							SEE NOTE			
PANELBOARD TOTAL (WATTS)	SEE NOTE	*** - PANELBOARD LOAD VALUES TO BE CALCULATED AND LISTED BY BATTERY SYSTEM SUPPLIER									

NOTE: PANELBOARD CIRCUIT BREAKER SHALL BE RATED AS REQUIRED PER THE SUPPLIER'S BATTERY SYSTEM LOAD CALCULATIONS (50A ASSUMED FOR BIDDING PURPOSES, REVISED AS REQUIRED PER THE MANUFACTURER'S ACCEPTED LOAD CALCULATIONS). BATTERY SYSTEM SUPPLIER SHALL PROVIDE CONDUCTORS FROM BATTERY RACK TO NEW DC PANELBOARD, SIZED IN ACCORDANCE WITH RECOMMENDED DC PANELBOARD BREAKER RATING

LINE IS 2 INCHES
AT FULL SCALE
IF NOT 2 INCHES, SCALE ACCORDINGLY

DRAWN BY BEI
DESIGN BY TB
CHECKED BY BEI
PROJ. MGR. M. NAKAMURA
D. GILL
OPERATIONS DIRECTOR
S. DELIGHT
DISTRICT ENGINEER

PLNNG./DEVL. N/A
FIELD OPS. N/A
WWTP OPS.
MECH./MAINT.
ELECT./INSTR.
SCALE N/A
DATE 10-5-26



DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515
WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

CIP NO. 24-P044

E019
13 42

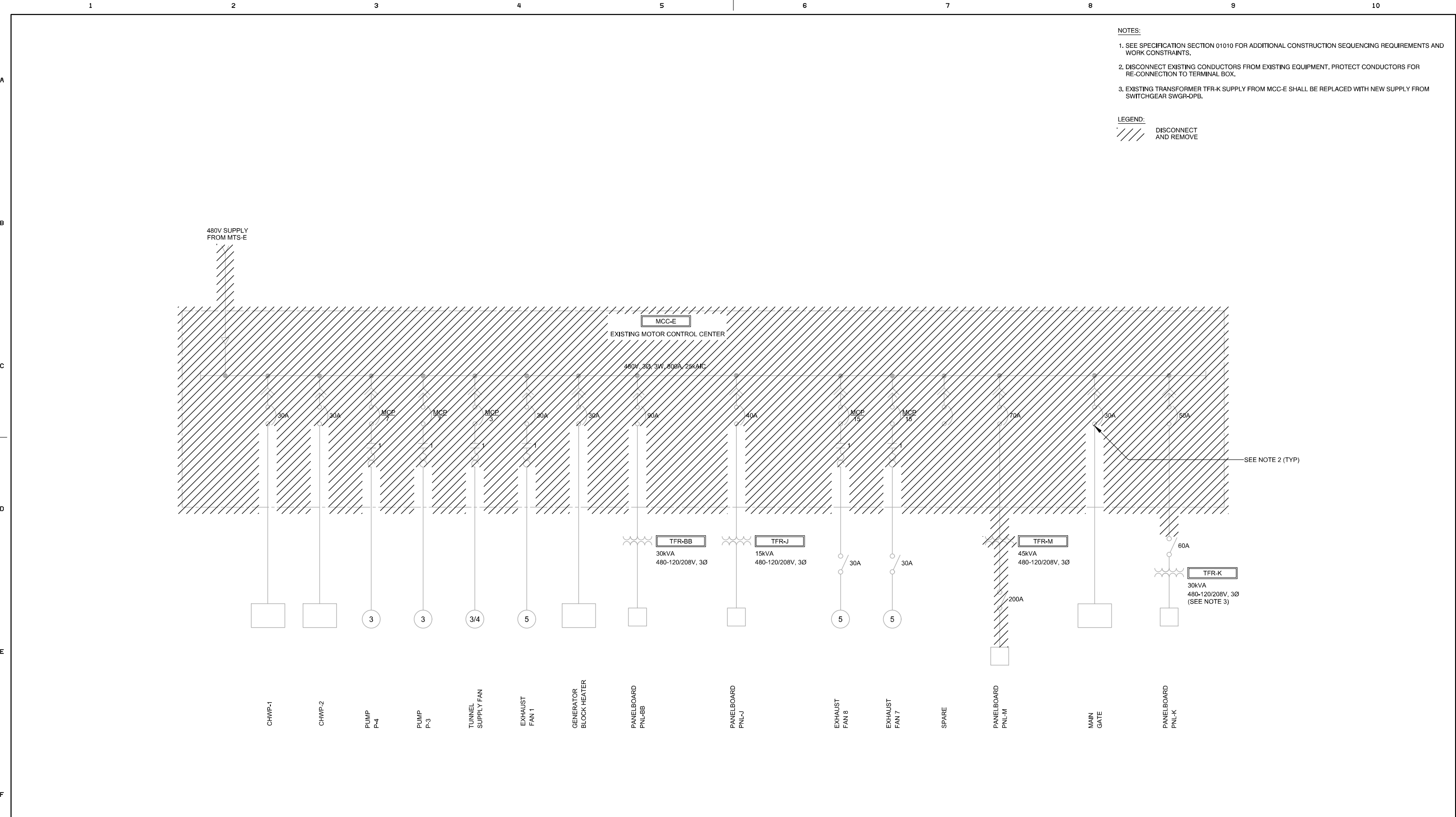
Beecher
Engineering, Inc.



DATE

REVISIONS AND RECORD OF ISSUE

NO. BY CK APP

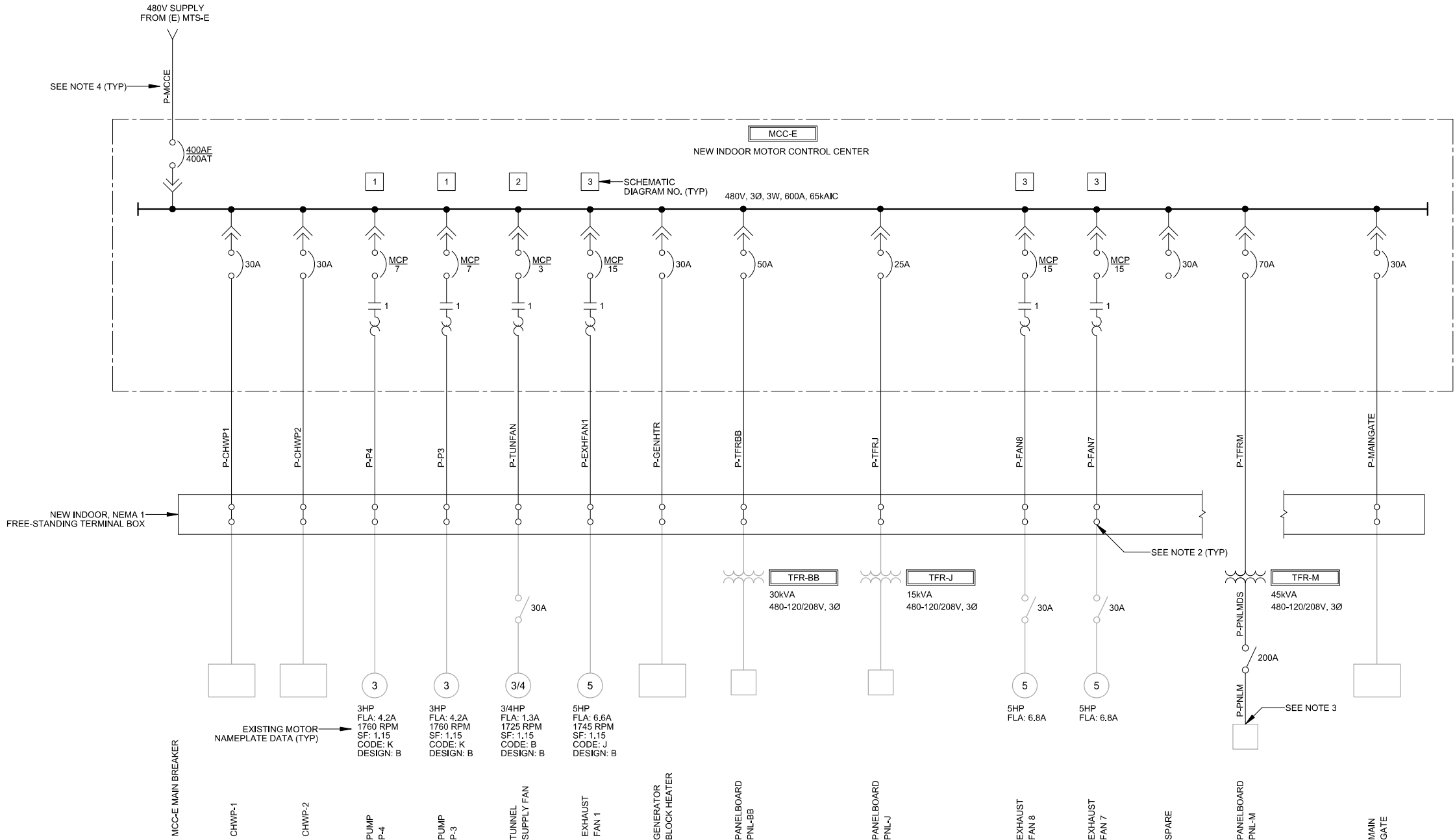


LINE IS 2 INCHES AT FULL SCALE					DESIGN	DRAWN BY BEI		REVIEW	PLNNG./DEVL. N/A			DUBLIN SAN RAMON SERVICES DISTRICT				CIP NO. 24-P044
IF NOT 2 INCHES, SCALE ACCORDINGLY						DESIGN BY TB			FIELD OPS. N/A			7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515				
						CHECKED BY BEI			WWTP OPS.			WWTP ELECTRICAL IMPROVEMENTS - PHASE 1				
					RECOM'D	PROJ. MGR. M. NAKAMURA			MECH./MAINT.			EXISTING MCC-E SINGLE LINE DIAGRAM - DEMOLITION				
						D. GILL OPERATIONS DIRECTOR			ELECT./INSTR.							
						S. DELIGHT DISTRICT ENGINEER										
						SCALE N/A		DATE 10-5-26								

A
B
C
D
E
F

A
B
C
D
E
F

- NOTES:
1. SEE SPECIFICATION SECTION 01010 FOR ADDITIONAL CONSTRUCTION SEQUENCING REQUIREMENTS AND WORK CONSTRAINTS.
 2. CONNECT EXISTING CONDUCTORS TO NEW EQUIPMENT.
 3. CONNECT NEW CONDUCTORS TO EXISTING EQUIPMENT.
 4. CIRCUIT NUMBER IS INDICATED. SEE CIRCUIT SCHEDULES ON DRAWING E061 FOR NEW CONDUCTOR REQUIREMENTS.



LINE IS 2 INCHES AT FULL SCALE
IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
	PROJ. MGR.	M. NAKAMURA
RECOM'D	D. GILL	OPERATIONS DIRECTOR
	S. DELIGHT	DISTRICT ENGINEER
	SCALE	N/A
	DATE	10-5-26

REVIEW	PLNNG./DEVL.	N/A
	FIELD OPS.	N/A
	WWTP OPS.	
	MECH./MAINT.	
ELECT./INSTR.		



DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515
WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

CIP NO. 24-P044

E033
16 42

Beecher Engineering, Inc.

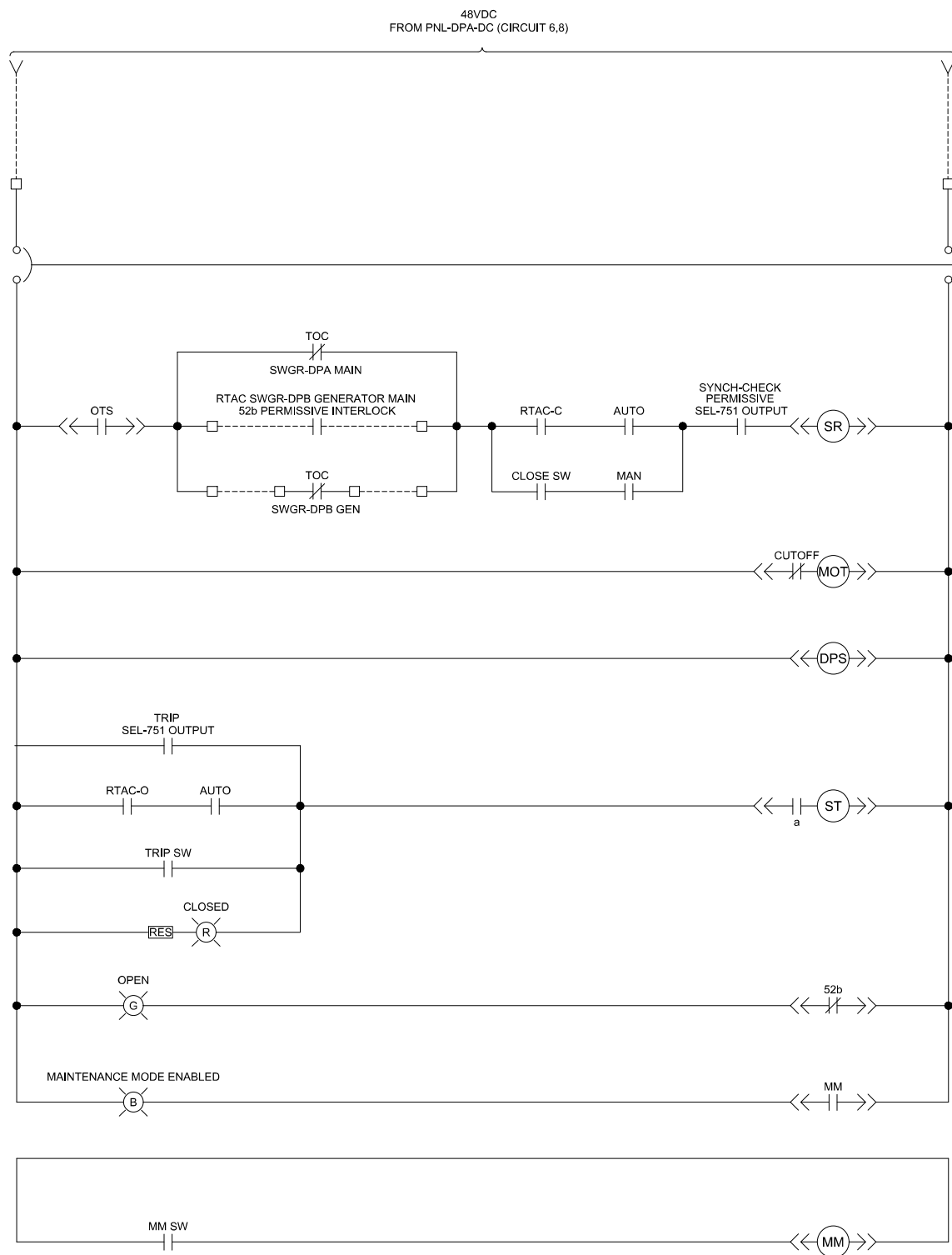


DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

1. SEE SPECIFICATION SECTION 01010 FOR ADDITIONAL CONSTRUCTION SEQUENCING REQUIREMENTS AND WORK CONSTRAINTS.



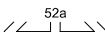
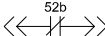
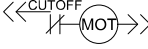
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP
------	-------------------------------	-----	----	----	-----



CIRCUIT BREAKER CONTROL SCHEMATIC DIAGRAM

TYPICAL FOR:

SWGR-DPA MAIN CIRCUIT BREAKER

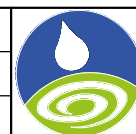
- | | |
|---|--|
| LEGEND: | |
|  | FIELD WIRING TERMINAL BLOCK |
|  | EXISTING FIELD WIRING TERMINAL BLOCK
(LOCATED AT EXISTING SWGR-DPB) |
|  | FIELD CONDUCTOR |
|  | 2-POLE DC CIRCUIT BREAKER |
|  | OVERCURRENT TRIP SWITCH |
|  | MECHANISM-OPERATED CONTACTS (MOC) |
|  | |
|  | TRUCK-OPERATED CONTACT (TOC)
NORMALLY-OPEN, CLOSED WHEN
BREAKER IS RACKED-IN |
|  | TRUCK-OPERATED CONTACT (TOC)
NORMALLY-CLOSED, OPEN WHEN
BREAKER IS RACKED-IN |
|  | RTAC CLOSE COMMAND OUTPUT |
|  | RTAC TRIP COMMAND OUTPUT |
|  | RTAC GENERATOR START COMMAND |
|  | TRANSFER SYSTEM CONTROL SWITCH
(AUTOMATIC MODE) |
|  | TRANSFER SYSTEM CONTROL SWITCH
(MANUAL MODE) |
|  | BREAKER CONTROL SWITCH (CLOSE) |
|  | BREAKER CONTROL SWITCH (TRIP) |
|  | MAINTENANCE MODE SELECTOR SWITCH |
|  | BREAKER SPRING RELEASE |
|  | BREAKER TRIP COIL |
|  | SPRING CHARGING MOTOR |
|  | TRIP UNIT POWER SUPPLY MODULE |
|  | MAINTENANCE MODE ACTIVATION |
|  | INDICATING LIGHT
R = RED
G = GREEN
B = BLUE |
|  | RESISTOR |
| NOTE:
ALL DEVICES LOCATED AT NEW SWGR-DPA UNLESS OTHERWISE NOTED | |



LINE IS 2 INCHES AT FULL SCALE IF NOT 2 INCHES, SCALE ACCORDINGLY				
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK APP

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
RECOM'D	PROJ. MGR.	M. NAKAMURA
		D. GILL
		OPERATIONS DIRECTOR
		S. DELIGHT
		DISTRICT ENGINEER

REVIEW	PLNNG./DEVL. N/A	
	FIELD OPS. N/A	
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
SCALE N/A		DATE 10-5-26



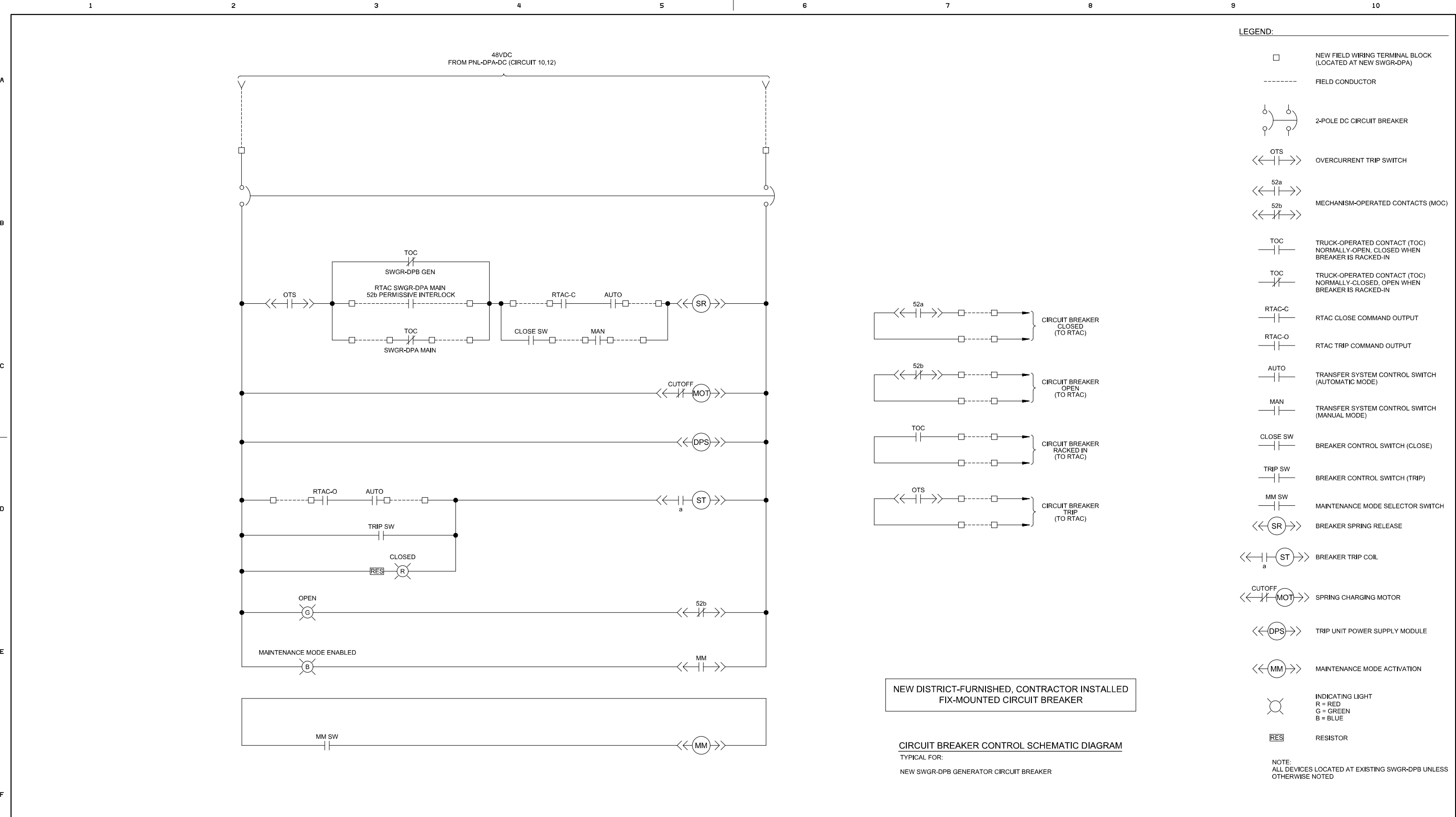
DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515
WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

SWITCHGEAR

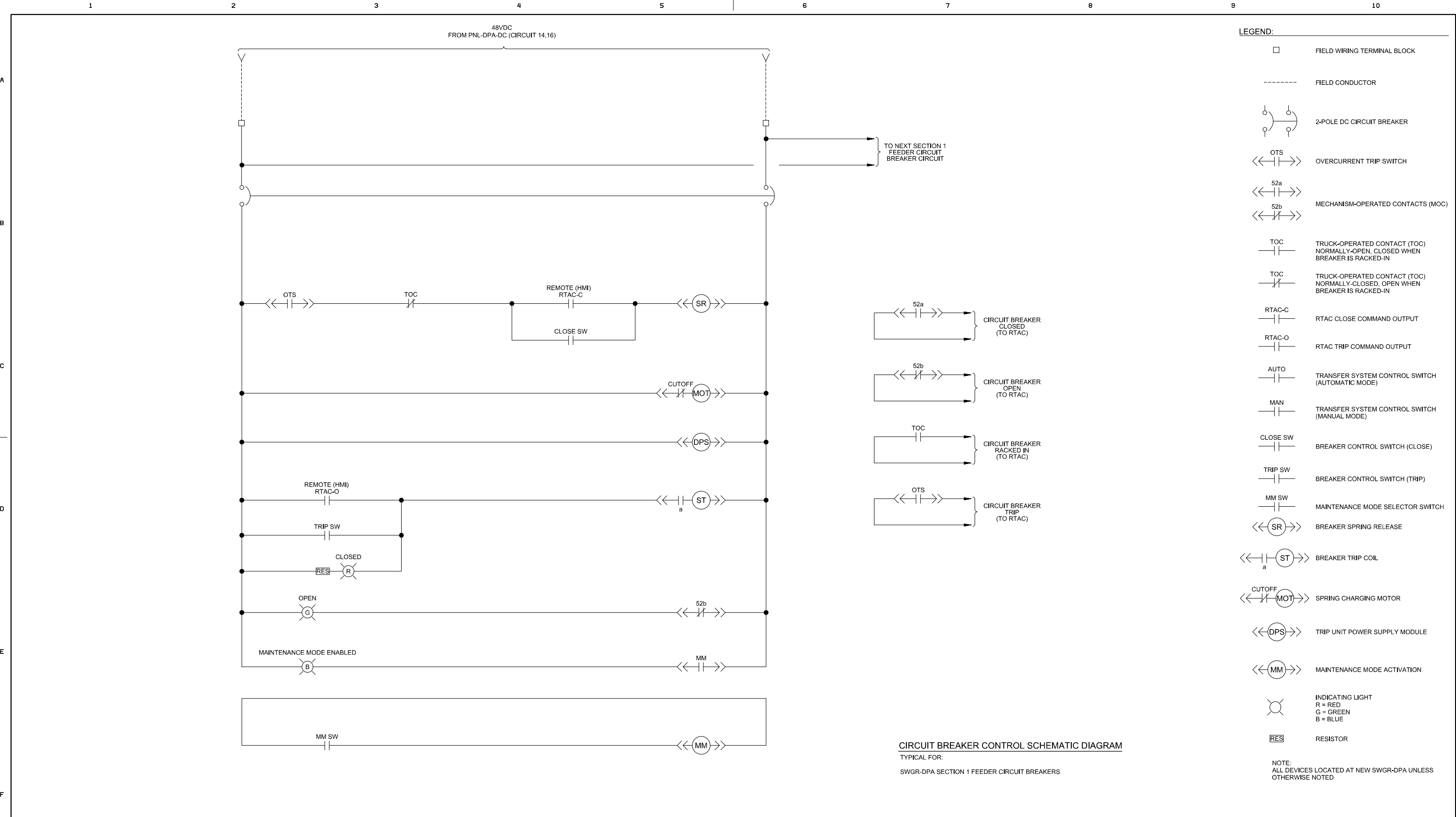
CIRCUIT BREAKER SCHEMATICS - 1

CIP NO. 24-P044

E041	
18	42



REGISTERED PROFESSIONAL ENGINEER TODD A. BEECHER E014712 Exp. 1/31/27 STATE OF CALIFORNIA OCTOBER 5, 2026		LINE IS 2 INCHES AT FULL SCALE IF NOT 2 INCHES, SCALE ACCORDINGLY				DESIGN		DRAWN BY BEI	PLNNG./DEVL. N/A		DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515 WWTP ELECTRICAL IMPROVEMENTS - PHASE 1 SWITCHGEAR CIRCUIT BREAKER SCHEMATICS - 2		CIP NO. 24-P044		
						REVIEW		DESIGN BY TB	FIELD OPS. N/A				E042 19 42		
						RECOM'D		CHECKED BY BEI	WWTP OPS.						
								PROJ. MGR. M. NAKAMURA	MECH./MAINT.						
DATE		REVISIONS AND RECORD OF ISSUE				NO.		BY	CK	APP	SCALE N/A		DATE 10-5-26		
								D. GILL		ELECT./INSTR.					
								OPERATIONS DIRECTOR							
								S. DELIGHT							
								DISTRICT ENGINEER							



LINE IS 2 INCHES
AT FULL SCALE
IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
	PROJ. MGR.	M. NAKAMURA
RECOM'D	D. GILL	OPERATIONS DIRECTOR
	S. DELIGHT	DISTRICT ENGINEER

REVIEW	PLNNG./DEVL.	N/A
	FIELD OPS.	N/A
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
SCALE	N/A	DATE 10-5-26



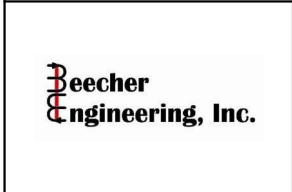
DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515

WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

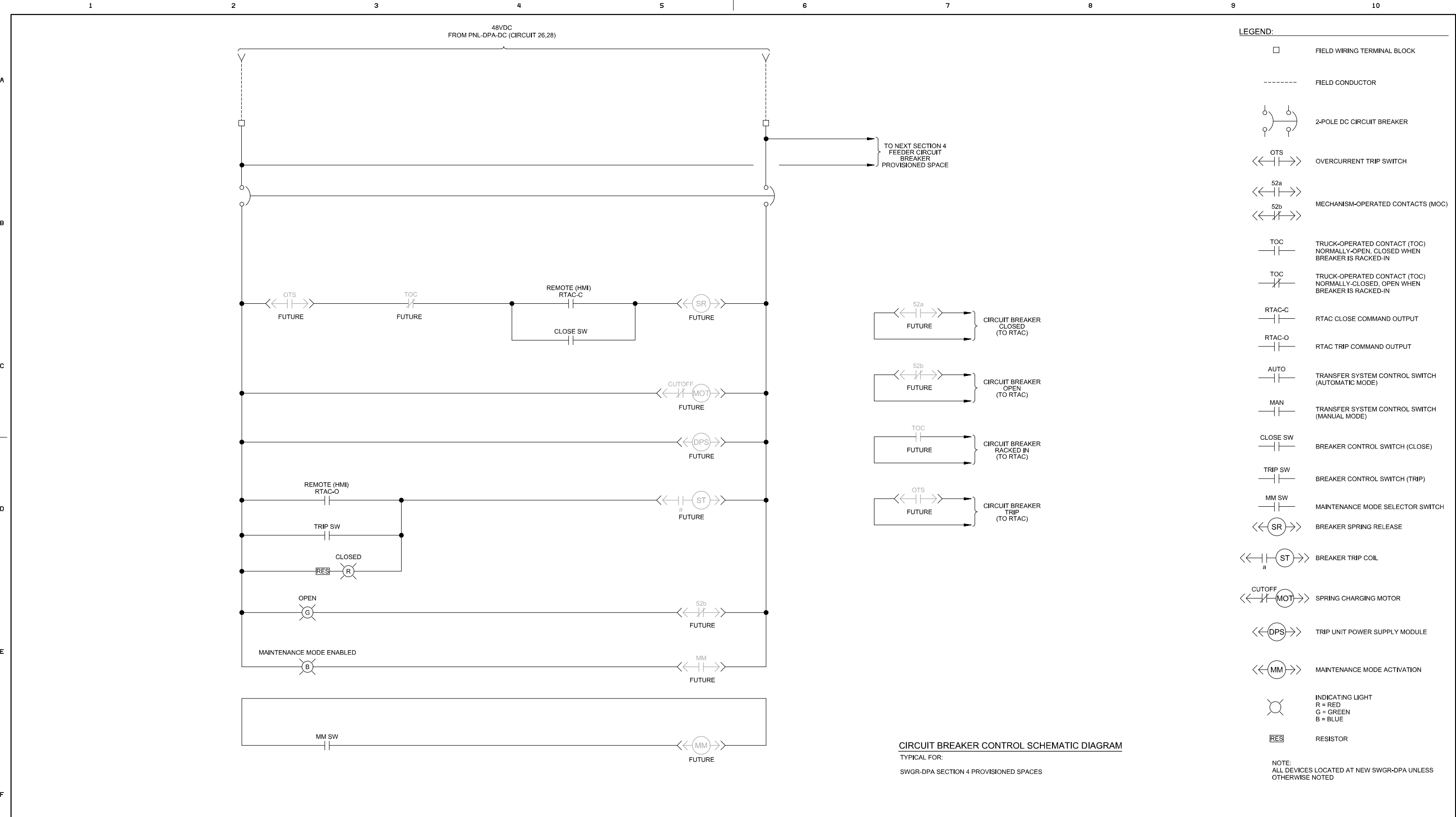
SWITCHGEAR
CIRCUIT BREAKER SCHEMATICS - 3

CIP NO. 24-P044

E043
20 42



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP



LINE IS 2 INCHES
AT FULL SCALE
IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
	PROJ. MGR.	M. NAKAMURA
RECOM'D	D. GILL OPERATIONS DIRECTOR	
	S. DELIGHT DISTRICT ENGINEER	

PLNNG./DEVL.	N/A
FIELD OPS.	N/A
WWTP OPS.	
MECH./MAINT.	
ELECT./INSTR.	
SCALE	N/A
DATE	10-5-26



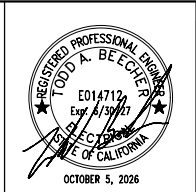
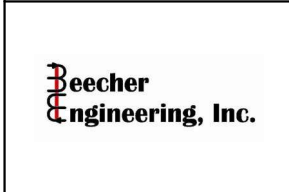
DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515

WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

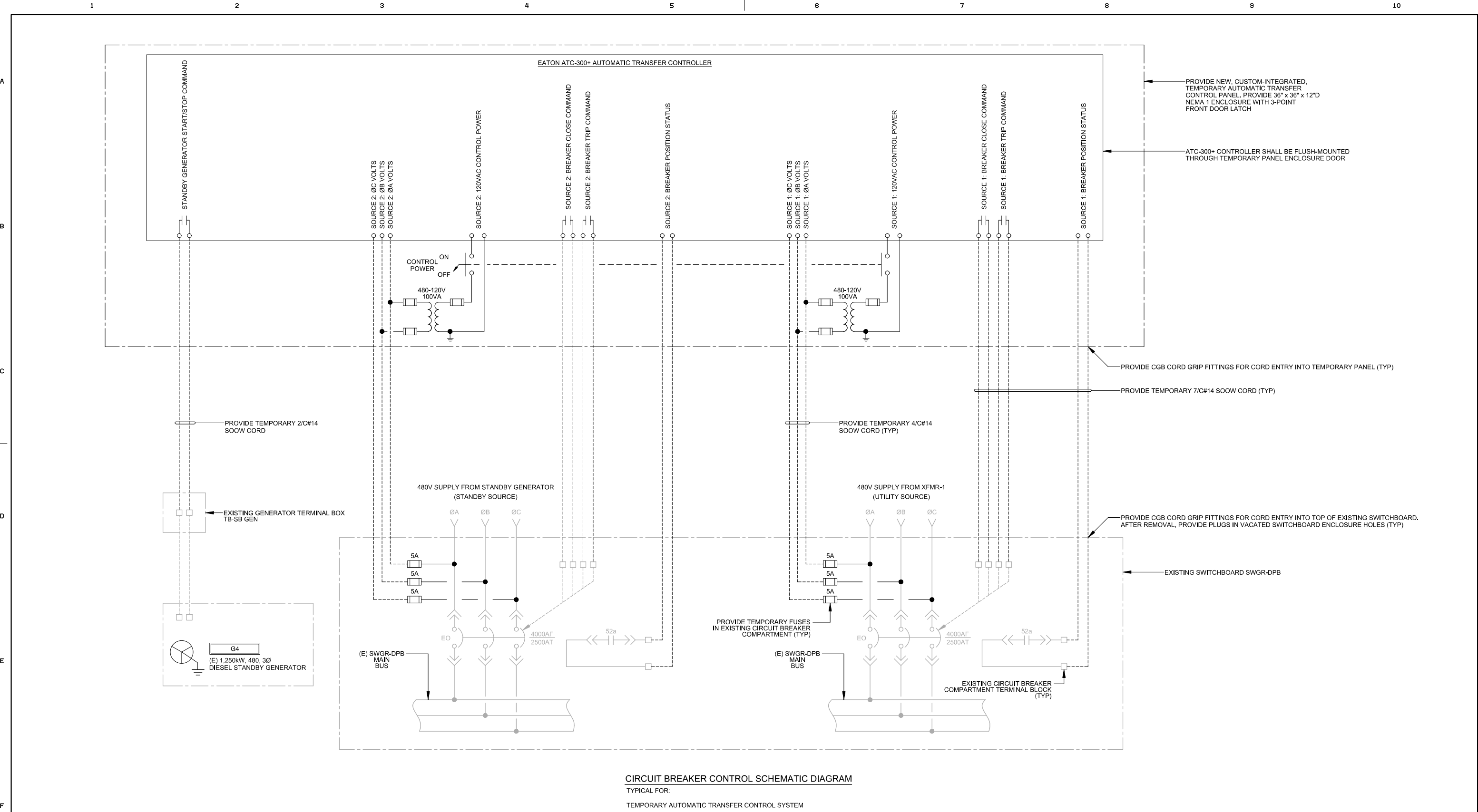
SWITCHGEAR
CIRCUIT BREAKER SCHEMATICS - 6

CIP NO. 24-P044

E046
23 42



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP



CIRCUIT BREAKER CONTROL SCHEMATIC DIAGRAM
TYPICAL FOR:
TEMPORARY AUTOMATIC TRANSFER CONTROL SYSTEM

LINE IS 2 INCHES
AT FULL SCALE
IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
	PROJ. MGR.	M. NAKAMURA
RECOM'D	D. GILL OPERATIONS DIRECTOR	
	S. DELIGHT DISTRICT ENGINEER	

REVIEW	PLNNG./DEVL.	N/A
	FIELD OPS.	N/A
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
	SCALE	N/A
DATE		10-5-26



DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515

WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

**TEMPORARY AUTOMATIC TRANSFER
CONTROL SCHEMATIC**

CIP NO. 24-P044

E047

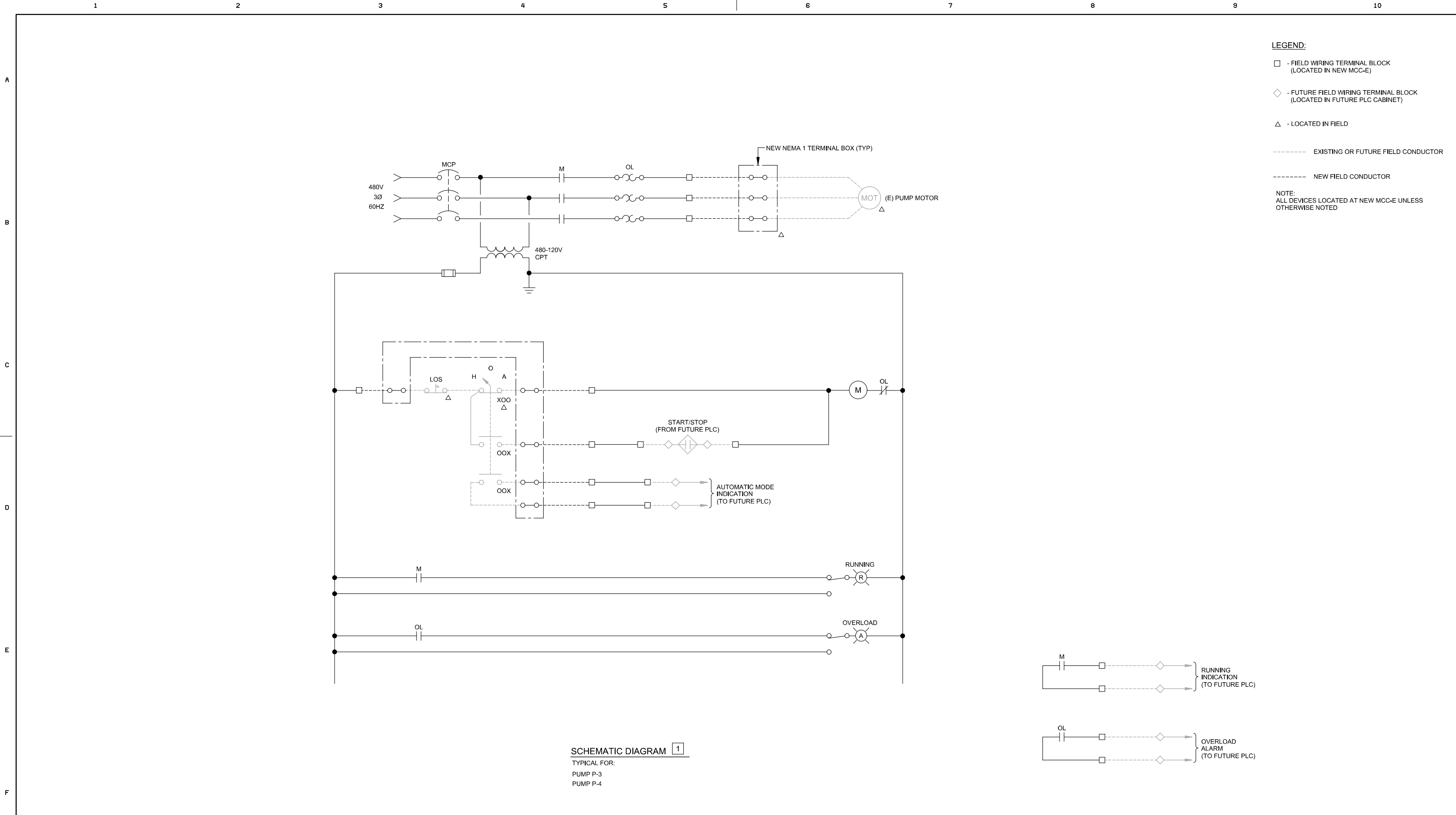
24 42



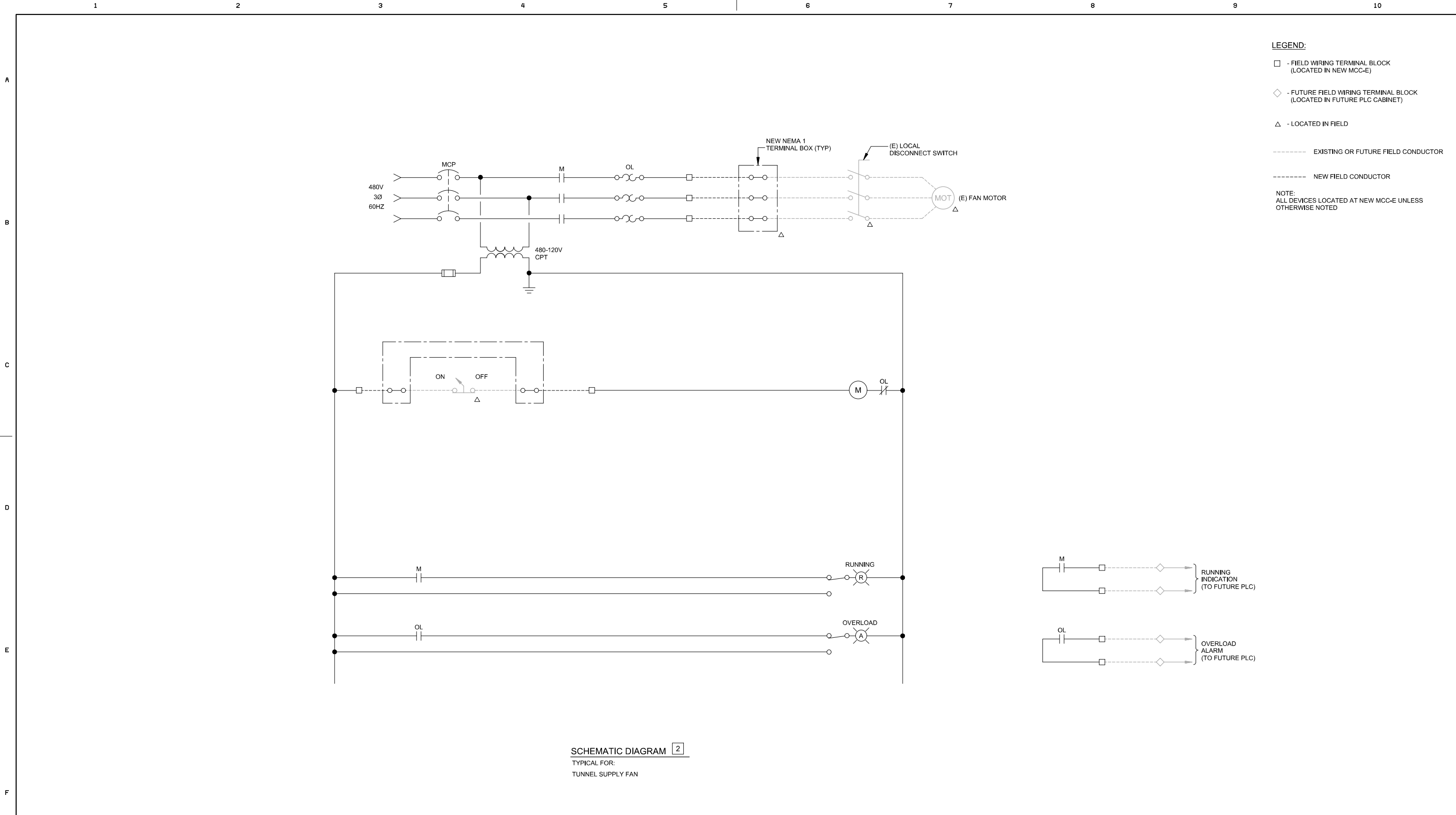


OCTOBER 5, 2026

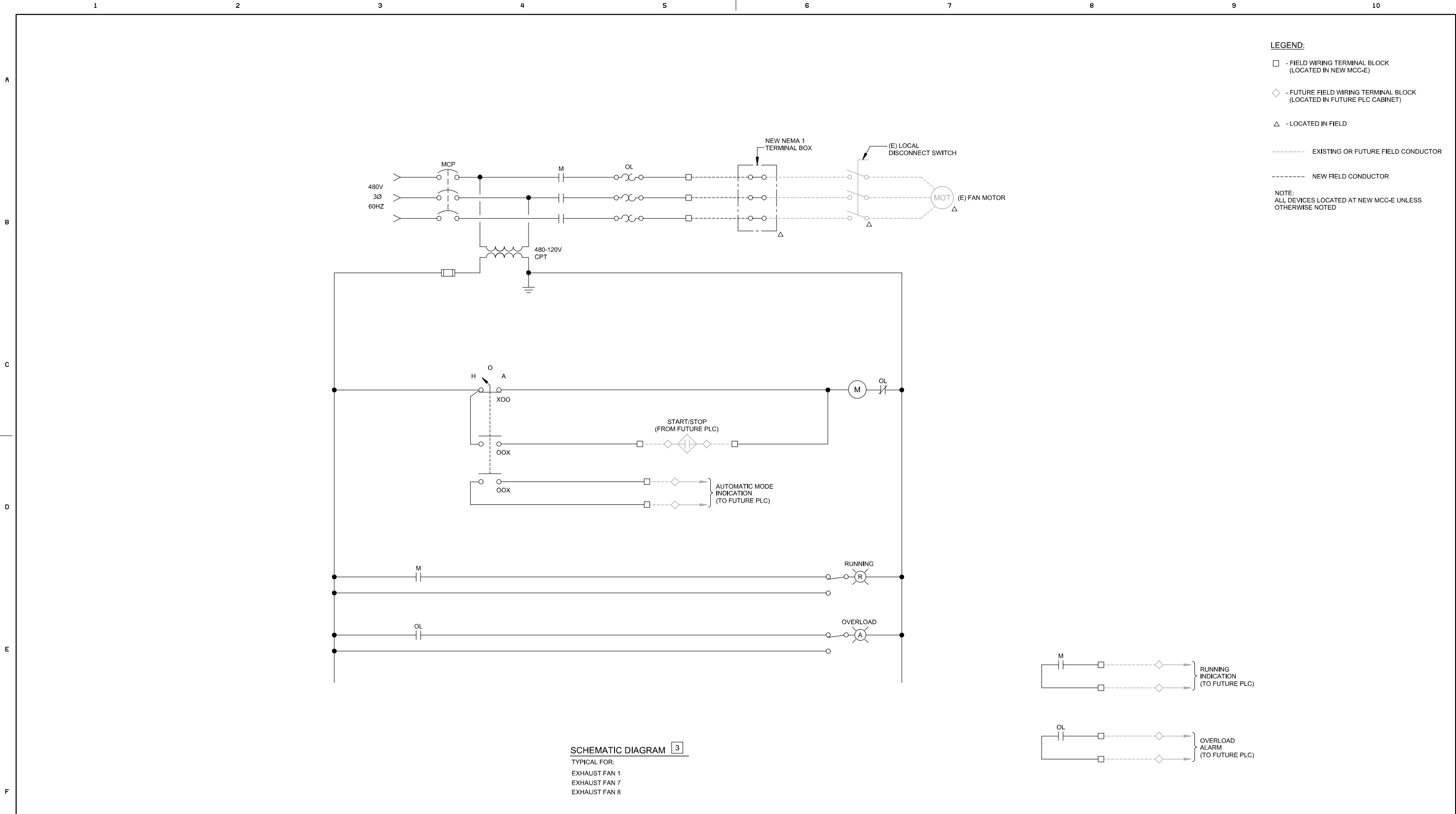
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP



			DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP	DESIGN	DRAWN BY	BEI	PLNNG./DEVL.	N/A	FIELD OPS.	N/A	WWTP OPS.	MECH./MAINT.	ELECT./INSTR.	SCALE	N/A	DATE	10-5-26		DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515		CIP NO. 24-P044
										CHECKED BY	BEI		WWTP OPS.		MECH./MAINT.					ELECT./INSTR.		SCALE		N/A	DATE	
										PROJ. MGR.	M. NAKAMURA											NEW MCC-E CONTROL SCHEMATICS - 1		E051 25 42		
										D. GILL OPERATIONS DIRECTOR																
										S. DELIGHT DISTRICT ENGINEER																



			LINE IS 2 INCHES AT FULL SCALE IF NOT 2 INCHES, SCALE ACCORDINGLY				DESIGN	DRAWN BY BEI	PLNNG./DEVL. N/A	 DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515		CIP NO. 24-P044
			DESIGN BY TB	FIELD OPS. N/A								
							RECOM'D	CHECKED BY BEI	WWTP OPS.	WWTP ELECTRICAL IMPROVEMENTS - PHASE 1		E052 26 42
								PROJ. MGR. M. NAKAMURA	MECH./MAINT.			
								D. GILL OPERATIONS DIRECTOR	ELECT./INSTR.			
								S. DELIGHT DISTRICT ENGINEER				
		DATE	REVISIONS AND RECORD OF ISSUE			NO.	BY	CK	APP	SCALE N/A	DATE 10-5-26	



			LINE IS 2 INCHES AT FULL SCALE IF NOT 2 INCHES, SCALE ACCORDINGLY				DESIGN	DRAWN BY	BEI	PLNNG./DEVL.	N/A	DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515 WWTP ELECTRICAL IMPROVEMENTS - PHASE 1	CIP NO. 24-P044	
			DESIGN BY	TB	FIELD OPS.	N/A								
							RECOM'D	CHECKED BY	BEI	REVIEW	WWTP OPS.	NEW MCC-E CONTROL SCHEMATICS - 3	E053 27 42	
								PROJ. MGR.	M. NAKAMURA		MECH./MAINT.			
								D. GILL OPERATIONS DIRECTOR			ELECT./INSTR.			
								S. DELIGHT DISTRICT ENGINEER						
			DATE	REVISIONS AND RECORD OF ISSUE			NO.	BY	CK	APP	SCALE	N/A	DATE	10-5-26

	1	2	3	4	5	6	7	8	9	10		
A	POWER CIRCUITS					CONTROL / SIGNAL CIRCUITS						
	CIRCUIT NO.	WIRE/CABLE REQUIREMENTS	FROM:	TO:	SCHEMATIC DIAGRAM NO.	CONDUCTOR TYPE	CIRCUIT NO.	WIRE/CABLE REQUIREMENTS	FROM:	TO:	SCHEMATIC DIAGRAM NO.	SIGNAL DESCRIPTION
B	P-DPA-1	4-500kcmil, 1-350kcmil GND	XFMR-1	SWGR-DPA	---	THWN-2	S-SWGRDPA	CAT-6	SWGR-DPA	MCCP (SWGR-DPEC)	---	SWGR-DPA ETHERNET COMMUNICATION
	P-DPA-2	4-500kcmil, 1-350kcmil GND	XFMR-1	SWGR-DPA	---	THWN-2	S-GPSANT	SEL-C961 CABLE	SWGR-DPA	GPS ANTENNA	---	SWGR-DPA GPS CLOCK ANTENNA
	P-DPA-3	4-500kcmil, 1-350kcmil GND	XFMR-1	SWGR-DPA	---	THWN-2						
	P-DPA-4	4-500kcmil, 1-350kcmil GND	XFMR-1	SWGR-DPA	---	THWN-2	C-DPBPT	4#12, 1#12GND	SWGR-DPB	SWGR-DPA	---	SWGR-DPB VOLTAGE SIGNALS
	P-DPA-5	4-500kcmil, 1-350kcmil GND	XFMR-1	SWGR-DPA	---	THWN-2	C-DPBKBR	18#14, 1#14GND	SWGR-DPB	SWGR-DPA	---	SWGR-DPB GENERATOR BREAKER CONTROL AND STATUS SIGNALS
	P-DPA-6	4-500kcmil, 1-350kcmil GND	XFMR-1	SWGR-DPA	---	THWN-2	C-GENST	2#14, 1#14GND	SWGR-DPA	TB-SB GEN	---	STANDBY GENERATOR START/STOP COMMAND
	P-MCCE	3-500kcmil, 1#3 GND	MTS-E	MCC-E	---	THWN-2	C-BATTCHG	4#14, 1#14GND	CHG-DPA-DC	SWGR-DPA	---	SWGR-DPA BATTERY CHARGER ALARMS
	P-TFRK	3#8, 1#10GND	SWGR-DPB	TFR-K DISC SW	---	THWN-2	C-P3	5#14, 1#14GND	MCC-E	TERMINAL BOX	1	PUMP P-3 FIELD SIGNALS
C												
	P-BATTCHGRAC	***	PNL-K	CHG-DPA-DC	---	THWN-2	C-P4	5#14, 1#14GND	MCC-E	TERMINAL BOX	1	PUMP P-4 FIELD SIGNALS
	P-BATTCHGRDC	***	PNL-DPA-DC	CHG-DPA-DC	---	THWN-2						
	P-BATTRACK	***	PNL-DPA-DC	BATTERY RACK	---	DLO CABLE	C-TUNFAN	2#14, 1#14GND	MCC-E	TERMINAL BOX	2	TUNNEL SUPPLY FAN FIELD SIGNALS
	P-DPADC-1	2#10, 1#10GND	PNL-DPA-DC	SWGR-DPA	---	THWN-2						
	P-DPADC-2	2#10, 1#10GND	PNL-DPA-DC	SWGR-DPA	---	THWN-2						
	P-DPADC-3	2#10, 1#10GND	PNL-DPA-DC	SWGR-DPB	---	THWN-2						
	P-DPADC-4	2#10, 1#10GND	PNL-DPA-DC	SWGR-DPA	---	THWN-2						
	P-DPADC-5	2#10, 1#10GND	PNL-DPA-DC	SWGR-DPA	---	THWN-2						
D	P-DPADC-6	2#10, 1#10GND	PNL-DPA-DC	SWGR-DPA	---	THWN-2						
	P-DPADC-7	2#10, 1#10GND	PNL-DPA-DC	SWGR-DPA	---	THWN-2						
	P-CHWP1	3#10, 1#10GND	MCC-E	TERMINAL BOX	---	THWN-2						
	P-CHWP2	3#10, 1#10GND	MCC-E	TERMINAL BOX	---	THWN-2						
	P-P3	3#12, 1#12GND	MCC-E	TERMINAL BOX	1	THWN-2						
	P-P4	3#12, 1#12GND	MCC-E	TERMINAL BOX	1	THWN-2						
	P-TUNFAN	3#12, 1#12GND	MCC-E	TERMINAL BOX	2	THWN-2						
	P-EXHFAN1	3#12, 1#12GND	MCC-E	TERMINAL BOX	3	THWN-2						
	P-GENHTR	3#10, 1#10GND	MCC-E	TERMINAL BOX	---	THWN-2						
E	P-TFRBB	3#8, 1#10GND	MCC-E	TERMINAL BOX	---	THWN-2						
	P-TFRJ	3#10, 1#10GND	MCC-E	TERMINAL BOX	---	THWN-2						
	P-FAN7	3#12, 1#12GND	MCC-E	TERMINAL BOX	3	THWN-2						
	P-FAN8	3#12, 1#12GND	MCC-E	TERMINAL BOX	3	THWN-2						
	P-TFRM	3#4, 1#8GND	MCC-E	TFR-M	---	THWN-2						
	P-PNLMD5	4#2/0, 1#6GND	TFR-M	PNL-M DISC SW	---	THWN-2						
	P-PNLM	4#2/0, 1#6GND	PNL-M DISC SW	PNL-M	---	THWN-2						
	P-MAINGATE	3#10, 1#10GND	MCC-E	TERMINAL BOX	---	THWN-2						
F												
*** - CONDUCTOR SIZE TO BE DETERMINED BY BATTERY SYSTEM SUPPLIER AFTER ACCEPTANCE OF BATTERY SYSTEM CALCULATIONS												
NOTES: 1. NEW CONDUIT AND RACEWAY REQUIREMENTS ARE NOT INCLUDED IN THE CIRCUIT SCHEDULES. REFER TO THE PLAN DRAWINGS FOR NEW CONDUIT AND RACEWAY REQUIREMENTS. 2. REFER TO DRAWING E071 FOR TEMPORARY CONDUCTOR AND CABLE SCHEDULES.												
LINE IS 2 INCHES AT FULL SCALE IF NOT 2 INCHES, SCALE ACCORDINGLY DESIGN RECOM'D DRAWN BY BEI DESIGN BY TB CHECKED BY BEI PROJ. MGR. M. NAKAMURA D. GILL OPERATIONS DIRECTOR S. DELIGHT DISTRICT ENGINEER PLNNG./DEVL. N/A FIELD OPS. N/A WWTP OPS. MECH./MAINT. ELECT./INSTR. SCALE N/A DATE 10-5-26 DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515 WWTP ELECTRICAL IMPROVEMENTS - PHASE 1 NEW CIRCUIT SCHEDULES CIP NO. 24-P044 E061 2842												

A

B

C

D

E

F

TEMPORARY CIRCUIT DESCRIPTION	TEMPORARY CONDUCTOR REQUIREMENTS	FROM:	TO:	APPROXIMATE CIRCUIT LENGTH (FEET)
XFMR-1 MAIN SUPPLY	6 SETS (4-262kcmil DLO CABLE), 2#4/0 DLO GND	XFMR-1	TEMP SPLICE TERMINAL BOX	30
SWGR-DPB SUPPLY	4 SETS (4#4/0 DLO CABLE), 2#4/0 DLO GND	TEMP SPLICE TERMINAL BOX	SWGR-DPB	100
SWGR-DPC SUPPLY	4 SETS (4-373kcmil DLO CABLE), 2#4/0 DLO GND	TEMP SPLICE TERMINAL BOX	TEMPORARY CONDUCTOR SPLICE	150
DPA-A SUPPLY	2 SETS (3#4/0 DLO CABLE), 1#4/0 DLO GND	SWGR-DPB	DPA-A	150
NEW SWGR-DPA SOURCE SIMULATION	4/C#10 SOOW CORD	DPA-A	NEW SWGR-DPA	50
EXISTING MCC-E SUPPLY	3#4/0 DLO CABLE, 1#4/0 DLO GND	NEW SWGR-DPA	EXISTING MCC-E	150
TEMPORARY ATC VOLTAGES	2 - 4/C#14 SOOW CORD	SWGR-DPB	TEMPORARY ATC PANEL	50
TEMPORARY ATC CONTROL SIGNALS	2 - 7/C#14 SOOW CORD	SWGR-DPB	TEMPORARY ATC PANEL	50
TEMPORARY GENERATOR START	2/C#14 SOOW CORD	SWGR-DPB	TB-SB GEN	100
CHWP-1 TEMPORARY POWER	4/C#10 SOOW CORD	NEW MCC-E	CHWP-1	200
CHWP-2 TEMPORARY POWER	4/C#10 SOOW CORD	NEW MCC-E	CHWP-1	200
PUMP P-3 TEMPORARY POWER	4/C#12 SOOW CORD	NEW MCC-E	PUMP P-3	150
PUMP P-3 TEMPORARY CONTROL	7/C#14 SOOW CORD	NEW MCC-E	PUMP P-3	150
PUMP P-4 TEMPORARY POWER	4/C#12 SOOW CORD	NEW MCC-E	PUMP P-4	150
PUMP P-4 TEMPORARY CONTROL	7/C#14 SOOW CORD	NEW MCC-E	PUMP P-4	150
TUNNEL SUPPLY FAN TEMPORARY POWER	4/C#12 SOOW CORD	NEW MCC-E	TUNNEL SUPPLY FAN	150
TUNNEL SUPPLY FAN TEMPORARY CONTROL	2/C#14 SOOW CORD	NEW MCC-E	TUNNEL SUPPLY FAN	150
EXHAUST FAN 1 TEMPORARY POWER	4/C#12 SOOW CORD	NEW MCC-E	EXHAUST FAN 1	150
GENERATOR BLOCK HEATER TEMPORARY POWER	4/C#10 SOOW CORD	NEW MCC-E	GENERATOR BLOCK HEATER	100
TRANSFORMER TFR-BB TEMPORARY POWER	4/C#8 SOOW CORD	NEW MCC-E	TRANSFORMER TFR-BB	150
TRANSFORMER TFR-J TEMPORARY POWER	4/C#10 SOOW CORD	NEW MCC-E	TRANSFORMER TFR-J	150
EXHAUST FAN 7 TEMPORARY POWER	4/C#12 SOOW CORD	NEW MCC-E	EXHAUST FAN 7	150
EXHAUST FAN 8 TEMPORARY POWER	4/C#12 SOOW CORD	NEW MCC-E	EXHAUST FAN 8	150
MAIN GATE TEMPORARY POWER	4/C#10 SOOW CORD	NEW MCC-E	MAIN GATE	250
PNL-M TEMPORARY POWER	4#4/0 DLO CABLE, 1#1/0 DLO GND	(E) DISCONNECT SWITCH	PNL-M	100

- NOTES:
1. TEMPORARY CONDUCTORS SHALL BE PROVIDED FOR INTERIM SYSTEM CONFIGURATIONS DURING REPLACEMENT OF EXISTING SWITCHGEAR AND MOTOR CONTROL CENTER EQUIPMENT. SEE SPECIFICATION SECTION 01010 FOR ADDITIONAL SEQUENCING REQUIREMENTS AND WORK CONSTRAINTS.

2. INDICATED TEMPORARY CONDUCTOR LENGTHS ARE BASED UPON APPROXIMATE LOCATIONS OF EQUIPMENT TERMINATION ENDPOINTS, INCLUDING ESTIMATED ADDITIONAL LENGTH FOR ANTICIPATED ROUTING PATH REQUIREMENTS.

3. WHERE MULTIPLE, PARALLEL SETS OF CONDUCTORS ARE INDICATED, LENGTH REPRESENTS THE ESTIMATED LENGTH FOR EACH INDIVIDUAL SET OF CONDUCTORS.

4. WHERE MULTIPLE MULTI-CONDUCTOR CABLES ARE INDICATED, LENGTH REPRESENTS THE ESTIMATED LENGTH FOR EACH INDIVIDUAL MULTI-CONDUCTOR CABLE.

LINE IS 2 INCHES
AT FULL SCALE

IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
	PROJ. MGR.	M. NAKAMURA
RECOM'D	D. GILL OPERATIONS DIRECTOR	
	S. DELIGHT DISTRICT ENGINEER	

REVIEW	PLNNG./DEVL.	N/A
	FIELD OPS.	N/A
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
SCALE		N/A
DATE		10-5-26



DUBLIN SAN RAMON SERVICES DISTRICT

7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515

WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

TEMPORARY CIRCUIT SCHEDULES

CIP NO. 24-P044

E071

2942

Beecher
Engineering, Inc.



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP		

1. SEE SPECIFICATION SECTION 01010 FOR ADDITIONAL CONSTRUCTION SEQUENCING REQUIREMENTS AND WORK CONSTRAINTS.



A PLAN
SCALE: 1/8" = 1'-0"
FILE: E081.dwg

LINE IS 2 INCHES
AT FULL SCALE

IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
RECOM'D	PROJ. MGR.	M. NAKAMURA
		D. GILL
		OPERATIONS DIRECTOR
		S. DELIGHT
		DISTRICT ENGINEER

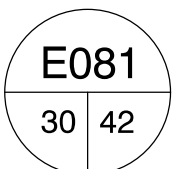
REVIEW	PLNNG./DEVL. N/A	
	FIELD OPS. N/A	
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
SCALE 1/8"=1'-0"		DATE 10-5-26



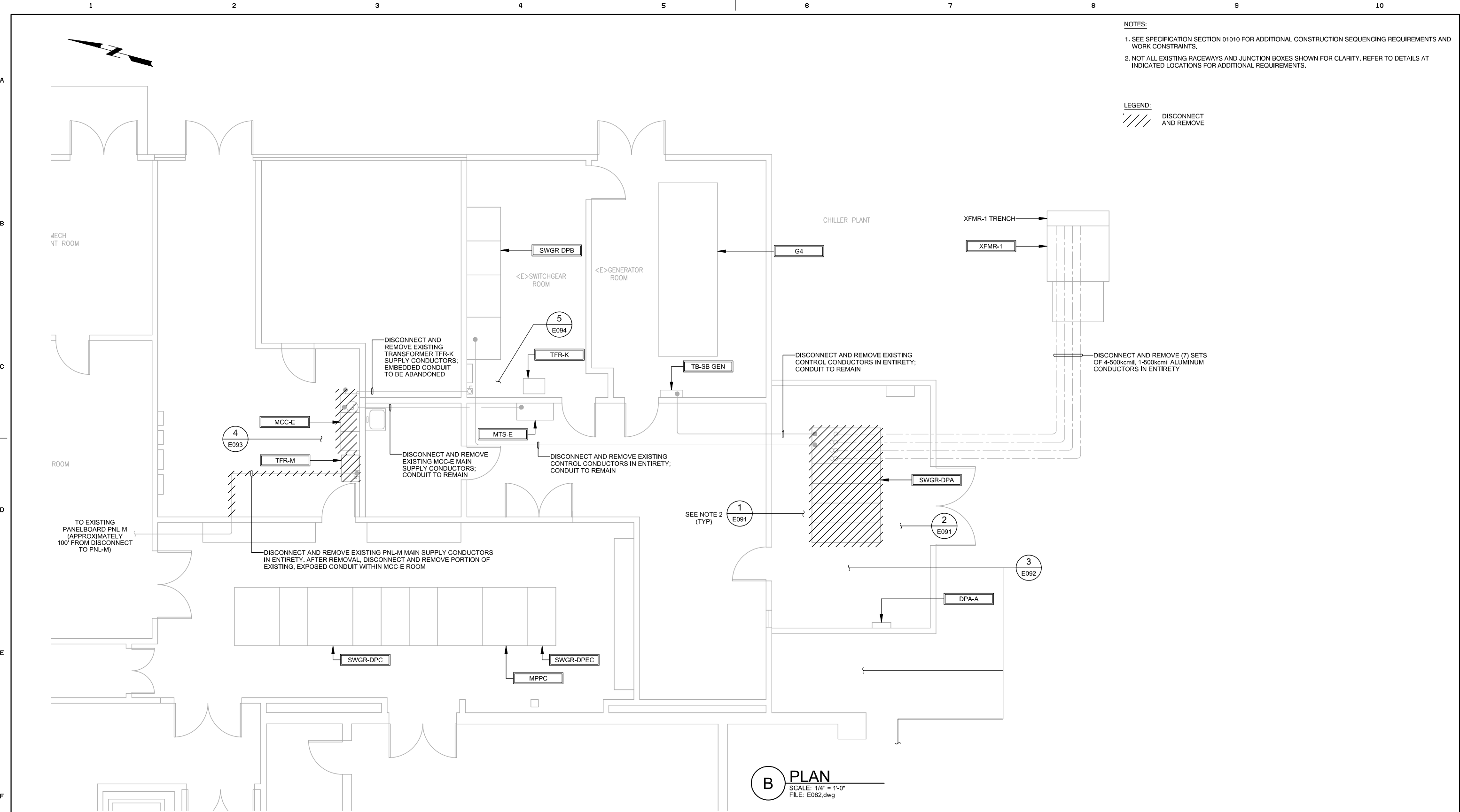
DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515
WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

CIP NO. 24-P044

BUILDING A KEY PLAN



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP



- NOTES:
1. SEE SPECIFICATION SECTION 01010 FOR ADDITIONAL CONSTRUCTION SEQUENCING REQUIREMENTS AND WORK CONSTRAINTS.
 2. NOT ALL EXISTING RACEWAYS AND JUNCTION BOXES SHOWN FOR CLARITY. REFER TO DETAILS AT INDICATED LOCATIONS FOR ADDITIONAL REQUIREMENTS.

LEGEND:

DISCONNECT AND REMOVE

B PLAN
SCALE: 1/4" = 1'-0"
FILE: E082.dwg

LINE IS 2 INCHES AT FULL SCALE
IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
	PROJ. MGR.	M. NAKAMURA
RECOM'D	D. GILL OPERATIONS DIRECTOR	
	S. DELIGHT DISTRICT ENGINEER	

REVIEW	PLNNG./DEVL.	N/A
	FIELD OPS.	N/A
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
SCALE 1/4"=1'-0"		DATE 10-5-26



DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515

WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

BUILDING A FIRST FLOOR PARTIAL PLAN -
DEMOLITION

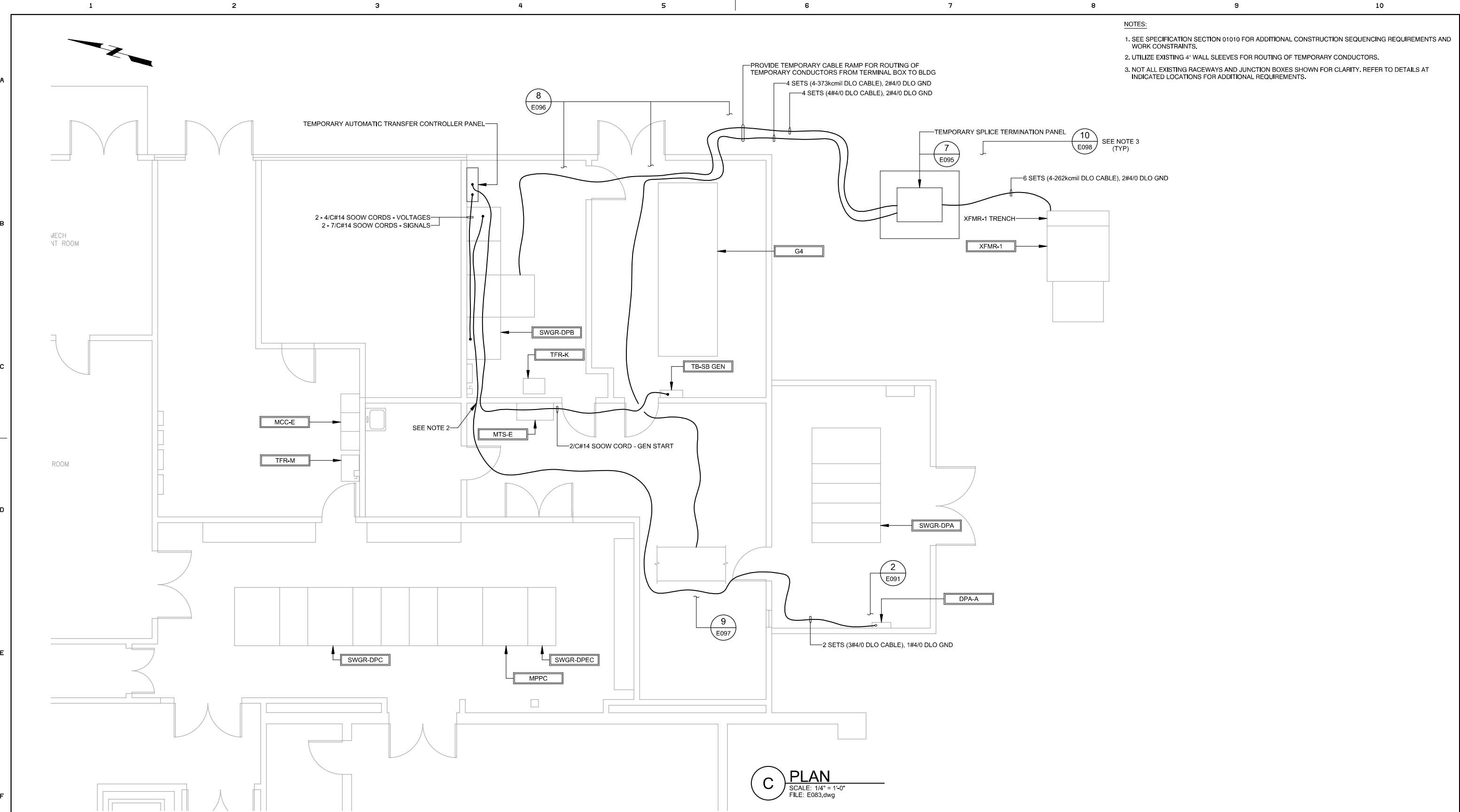
CIP NO. 24-P044

E082
31 42

Beecher
Engineering, Inc.



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP



LINE IS 2 INCHES
AT FULL SCALE
IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
	PROJ. MGR.	M. NAKAMURA
RECOM'D	D. GILL	OPERATIONS DIRECTOR
	S. DELIGHT	DISTRICT ENGINEER

REVIEW	PLNNG./DEVL.	N/A
	FIELD OPS.	N/A
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
SCALE 1/4"=1'-0"		DATE 10-5-26



DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515

WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

BUILDING A FIRST FLOOR PARTIAL PLAN -
INTERIM SYSTEM - PHASE 1 WORK

CIP NO. 24-P044

E083

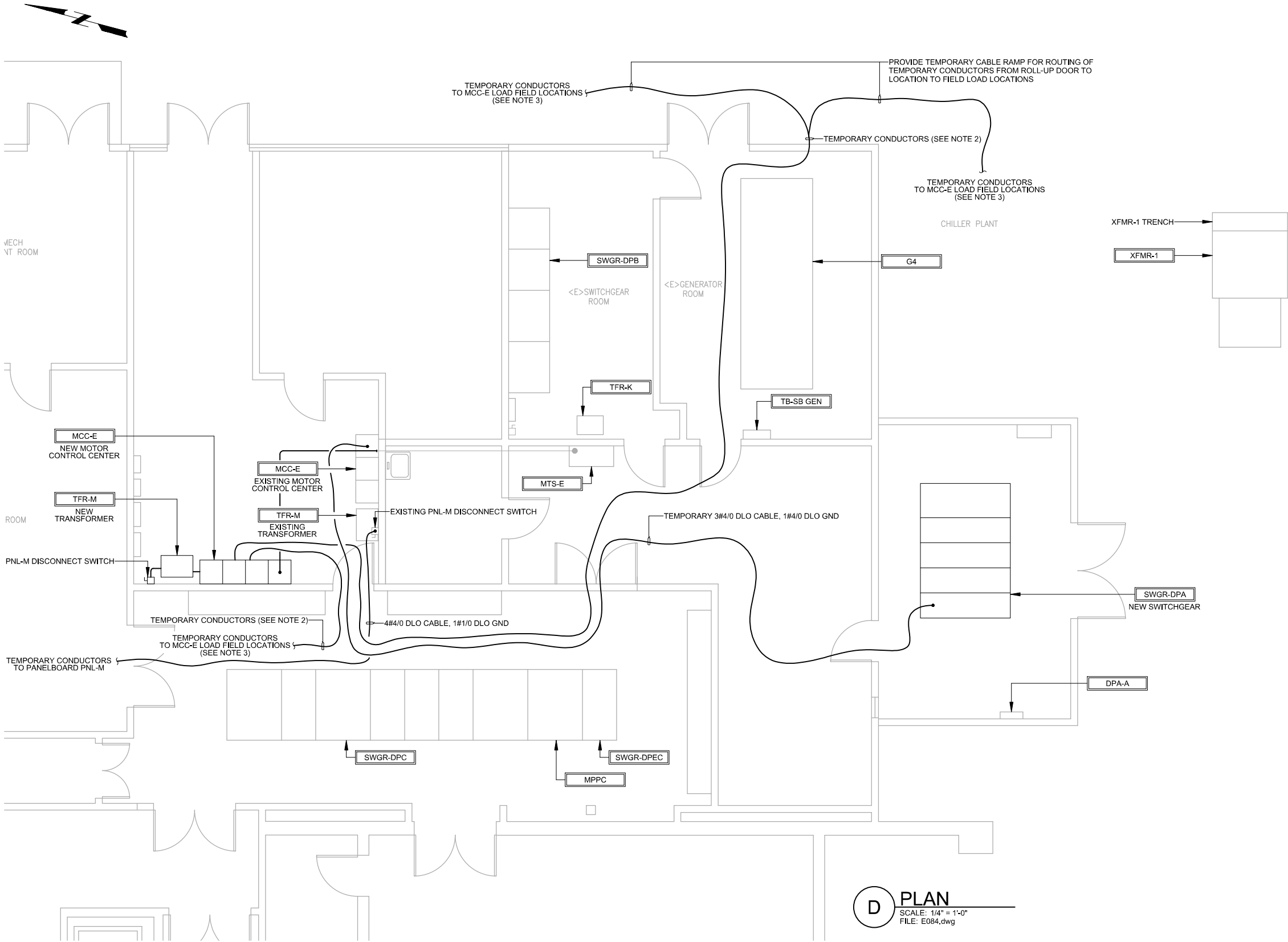
32 42

Beecher
Engineering, Inc.



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

- NOTES:
1. SEE SPECIFICATION SECTION 01010 FOR ADDITIONAL CONSTRUCTION SEQUENCING REQUIREMENTS AND WORK CONSTRAINTS.
 2. SEE TEMPORARY CIRCUIT SCHEDULES ON DRAWING E071 FOR TEMPORARY CONDUCTOR REQUIREMENTS.
 3. ROUTE TEMPORARY CONDUCTORS TO EXISTING MCC-E LOAD FIELD LOCATIONS. FOR EACH FIELD LOAD, TEMPORARILY DISCONNECT PERMANENT CONDUCTORS AND CONNECT TEMPORARY CONDUCTORS. ONCE NEW MCC-E FREE-STANDING TERMINAL BOX IS COMPLETE, DISCONNECT AND REMOVE TEMPORARY CONDUCTORS AND RE-CONNECT PERMANENT FIELD CONDUCTORS TO EACH FIELD LOAD.



D PLAN
SCALE: 1/4" = 1'-0"
FILE: E084.dwg

LINE IS 2 INCHES
AT FULL SCALE
IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
	PROJ. MGR.	M. NAKAMURA
RECOM'D	D. GILL OPERATIONS DIRECTOR	
	S. DELIGHT DISTRICT ENGINEER	

REVIEW	PLNNG./DEVL.	N/A
	FIELD OPS.	N/A
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
SCALE 1/4"=1'-0"		DATE 10-5-26



DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515
WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

**BUILDING A FIRST FLOOR PARTIAL PLAN -
INTERIM SYSTEM - PHASE 2 WORK**

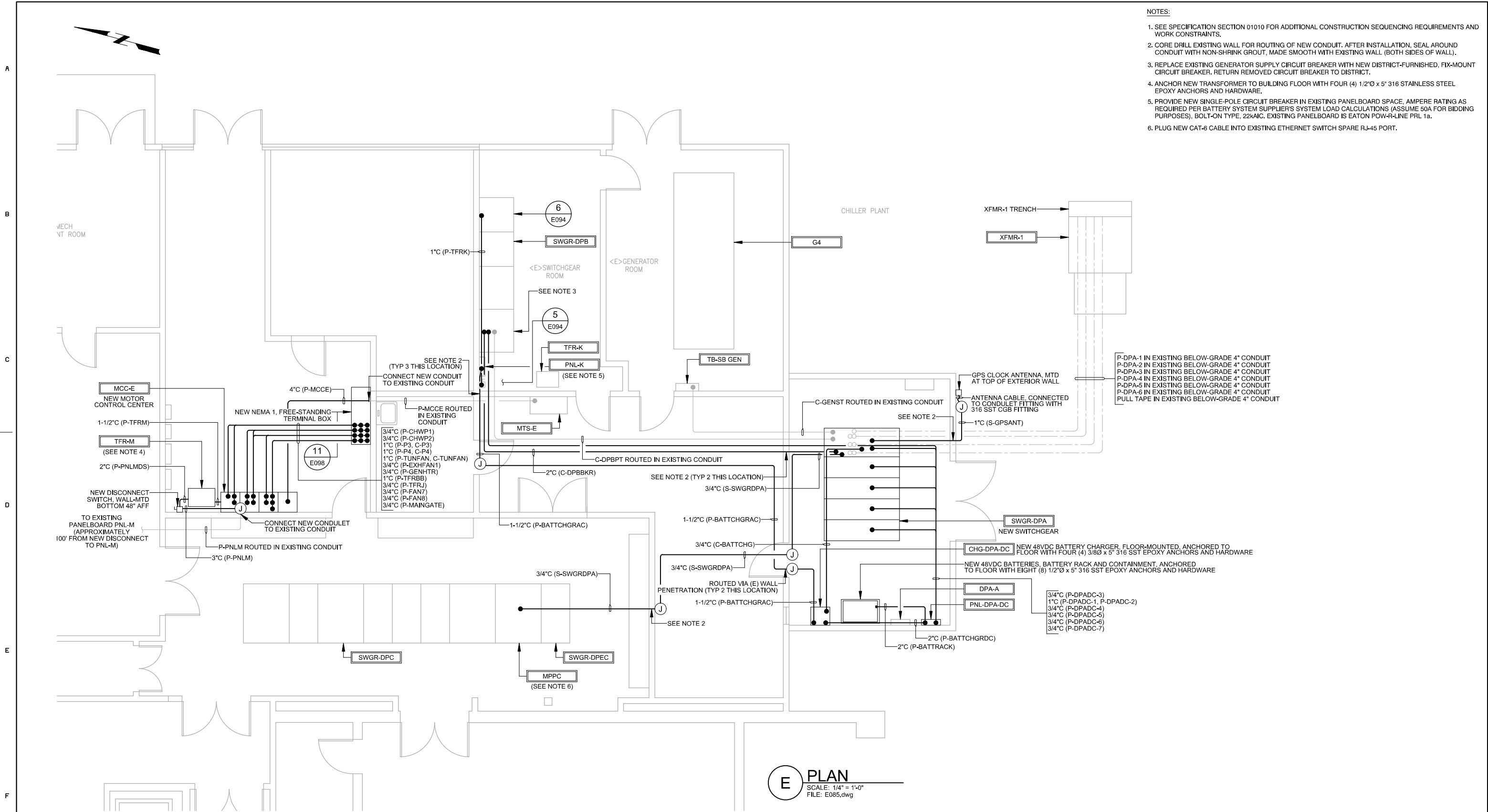
CIP NO. 24-P044

E084
33 42

**Beecher
Engineering, Inc.**



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP



- NOTES:
- SEE SPECIFICATION SECTION 01010 FOR ADDITIONAL CONSTRUCTION SEQUENCING REQUIREMENTS AND WORK CONSTRAINTS.
 - CORE DRILL EXISTING WALL FOR ROUTING OF NEW CONDUIT. AFTER INSTALLATION, SEAL AROUND CONDUIT WITH NON-SHRINK GROUT, MADE SMOOTH WITH EXISTING WALL (BOTH SIDES OF WALL).
 - REPLACE EXISTING GENERATOR SUPPLY CIRCUIT BREAKER WITH NEW DISTRICT-FURNISHED, FIX-MOUNT CIRCUIT BREAKER. RETURN REMOVED CIRCUIT BREAKER TO DISTRICT.
 - ANCHOR NEW TRANSFORMER TO BUILDING FLOOR WITH FOUR (4) 1/2" x 5" 316 STAINLESS STEEL EPOXY ANCHORS AND HARDWARE.
 - PROVIDE NEW SINGLE-POLE CIRCUIT BREAKER IN EXISTING PANELBOARD SPACE, AMPERE RATING AS REQUIRED PER BATTERY SYSTEM SUPPLIER'S SYSTEM LOAD CALCULATIONS (ASSUME 50A FOR BIDDING PURPOSES), BOLT-ON TYPE, 22kAIC. EXISTING PANELBOARD IS EATON POW-R-LINE PRL 1a.
 - PLUG NEW CAT-6 CABLE INTO EXISTING ETHERNET SWITCH SPARE RJ-45 PORT.

E PLAN
SCALE: 1/4" = 1'-0"
FILE: E085.dwg

LINE IS 2 INCHES
AT FULL SCALE
IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
RECOM'D	PROJ. MGR.	M. NAKAMURA
	D. GILL	OPERATIONS DIRECTOR
	S. DELIGHT	DISTRICT ENGINEER

PLNNG./DEVL.	N/A
FIELD OPS.	N/A
WWTP OPS.	
MECH./MAINT.	
ELECT./INSTR.	
SCALE	1/4"=1'-0"
DATE	10-5-26



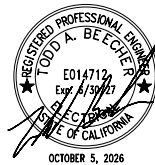
DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515
WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

CIP NO. 24-P044

E085

34 42

Beecher
Engineering, Inc.



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

NOTES:

1. AFTER EXISTING CONDUCTORS ARE DISCONNECTED FROM EXISTING SWITCHGEAR DP-A AND PULLED BACK, DISCONNECT EXISTING CABLE TRAY FROM EXISTING JUNCTION BOX. AFTER NEW JUNCTION BOX IS INSTALLED, RE-CONNECT EXISTING CABLE TRAY TO NEW JUNCTION BOX FOR ROUTING OF EXISTING CONDUCTORS TO NEW SWITCHGEAR DP-A.
2. NEW SWITCHGEAR DP-A IS 4 INCHES TALLER THAN EXISTING SWITCHGEAR DP-A. IN ORDER TO FACILITATE INSTALLATION OF NEW SWITCHGEAR DP-A, THE EXISTING TOP-MOUNTED 24"x4" x 18"x60" NEMA 1 JUNCTION BOX SHALL BE REPLACED WITH A NEW 24"x4" x 12"x60" NEMA 1 JUNCTION BOX, PRIOR TO REMOVING THE EXISTING JUNCTION BOX. EXISTING CONDUCTORS SHALL BE DISCONNECTED FROM EXISTING SWITCHGEAR DP-A AND PULLED BACK OUT OF TOP OF SWITCHGEAR AND COILED FOR INSTALLATION OF NEW JUNCTION BOX.



(E) CABLE TRAY
(SEE NOTE 1)

(E) NEMA 1 JUNCTION BOX
(SEE NOTE 2)



DISCONNECT EXISTING DP-A-A FEEDER
CONDUCTORS FROM EXISTING SWITCHGEAR
DP-A. AFTER DISCONNECTION, DISCONNECT
TWO (2) EXISTING CONDUITS FROM TOP OF
EXISTING SWITCHGEAR DP-A. TEMPORARILY
LOOSEN/DISASSEMBLE OVERHEAD CONDUIT
SUPPORTS AND LIFT CONDUITS UP SLIGHTLY
TO FACILITATE REMOVAL OF EXISTING
SWITCHGEAR DP-A AND INSTALLATION OF
NEW SWITCHGEAR DP-A.

— EXISTING SWITCHGEAR DP-A

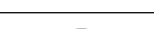
ROUTE TEMPORARY PANELBOARD DP-A-A
MAIN SUPPLY CONDUCTORS ALONG BUILDING
FLOOR TO EXISTING SWITCHGEAR DP-B

1 DETAIL - SWITCHGEAR DP-A TOP-MOUNTED JUNCTION BOX REPLACEMENT

E082	NO SCALE
------	----------

2 2 DETAIL - PANELBOARD DP-A-A TEMPORARY PROVISIONS

NO SCALE

			LINE IS 2 INCHES AT FULL SCALE IF NOT 2 INCHES, SCALE ACCORDINGLY				DESIGN	DRAWN BY	BEI	REVIEW	PLNNG./DEVL. N/A						
			DESIGN BY	TB	FIELD OPS. N/A												
							CHECKED BY	BEI		WWTP OPS.							
							PROJ. MGR.	M. NAKAMURA	MECH./MAINT.								
							D. GILL OPERATIONS DIRECTOR		SCALE	N/A	DATE	10-5-26					
							S. DELIGHT DISTRICT ENGINEER										
DATE							REVISIONS AND RECORD OF ISSUE				NO.		BY	CK	APP		
																DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515 WWTP ELECTRICAL IMPROVEMENTS - PHASE 1 DETAILS - 1	

DISCONNECT AND REMOVE EXISTING MCC-E MAIN SUPPLY CONDUCTORS FROM EXISTING MTS-E TO EXISTING MCC-E. AFTER REMOVAL OF CONDUCTORS, DISCONNECT AND REMOVE EXISTING CONDULET FITTING AND CONNECTION TO EXISTING MCC-E. EXISTING CONDUIT STUB-OUT AT WALL SHALL CONNECT TO NEW CONDUIT ROUTED OVERHEAD TO NEW MCC-E

DISCONNECT AND REMOVE EXISTING PANELBOARD PNL-M CONDUCTORS FROM EXISTING DISCONNECT SWITCH TO EXISTING PANELBOARD PNL-M. AFTER REMOVAL OF CONDUCTORS, DISCONNECT AND REMOVE PORTION OF EXISTING OVERHEAD CONDUIT TO WALL STUB-OUT LOCATION WITHIN MCC-E ROOM. EXISTING CONDUIT WALL STUB-OUT SHALL BE CONNECTED TO NEW OVERHEAD CONDUIT DOWN TO NEW MCC-E

DISCONNECT EXISTING CONDUCTORS FROM EXISTING MCC-E FOLLOWED BY DISCONNECTION OF EXISTING CONDUITS FROM TOP OF EXISTING MCC-E, PROTECTING EXISTING CONDUCTORS AND CONDUITS FOR RE-CONNECTION TO NEW FREE-STANDING TERMINAL BOX

(E) PANELBOARD PNL-M DISCONNECT SWITCH

EXISTING MCC-E

EXISTING TFR-M

DISCONNECT EXISTING CONDUCTORS FROM EXISTING MCC-E FOLLOWED BY DISCONNECTION OF EXISTING CONDUITS FROM SIDE OF EXISTING MCC-E, PROTECTING EXISTING CONDUCTORS AND CONDUITS FOR RE-CONNECTION TO NEW FREE-STANDING TERMINAL BOX

4 DETAIL - EXISTING MCC-E AND TFR-M DEMOLITION
E082 NO SCALE

LINE IS 2 INCHES AT FULL SCALE
IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
	PROJ. MGR.	M. NAKAMURA
RECOM'D	D. GILL	OPERATIONS DIRECTOR
	S. DELIGHT	DISTRICT ENGINEER

REVIEW	PLNNG./DEVL.	N/A
	FIELD OPS.	N/A
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
	SCALE	N/A
DATE		10-5-26



DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515
WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

CIP NO. 24-P044

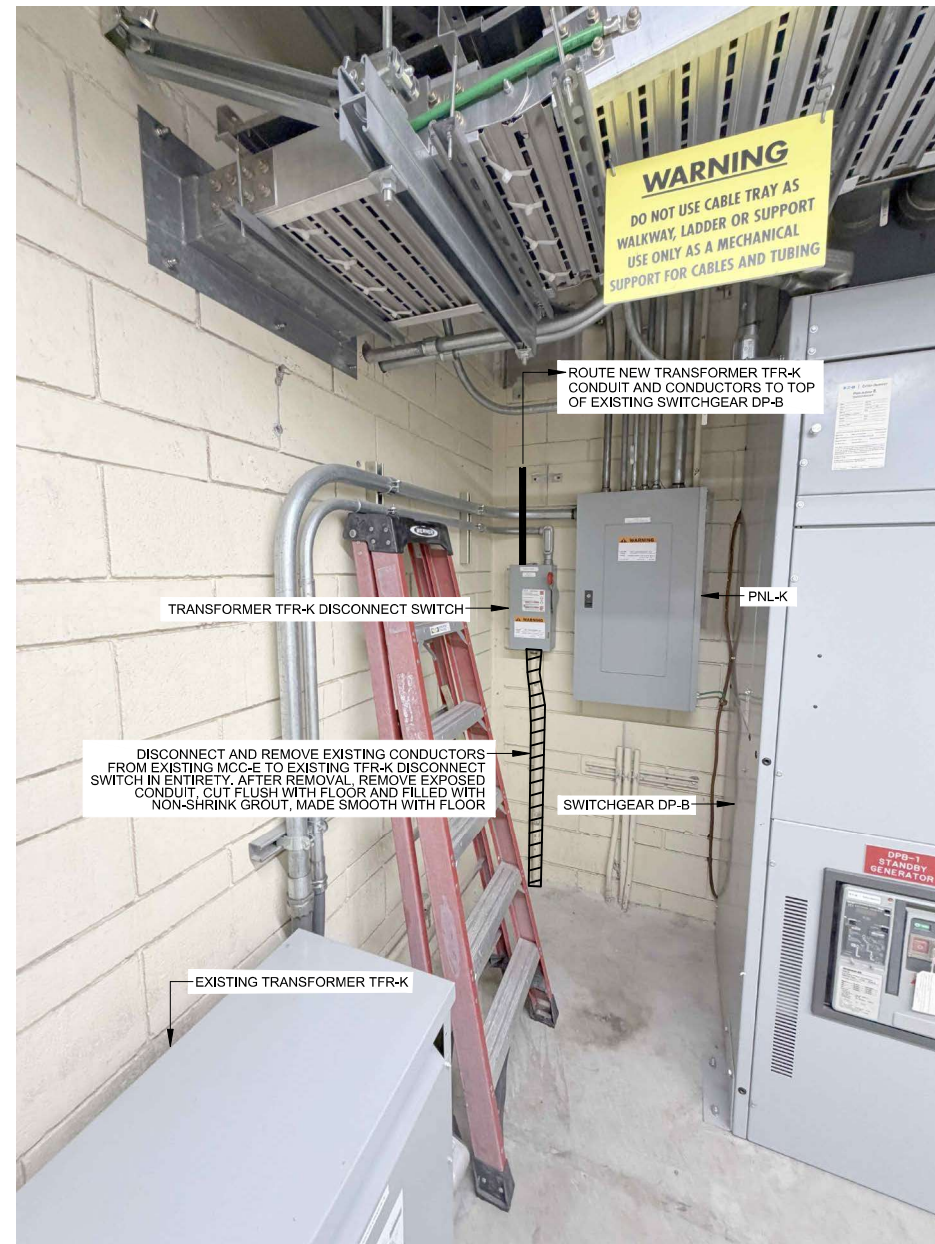
DETAILS - 3

E093
37 42

Beecher Engineering, Inc.



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

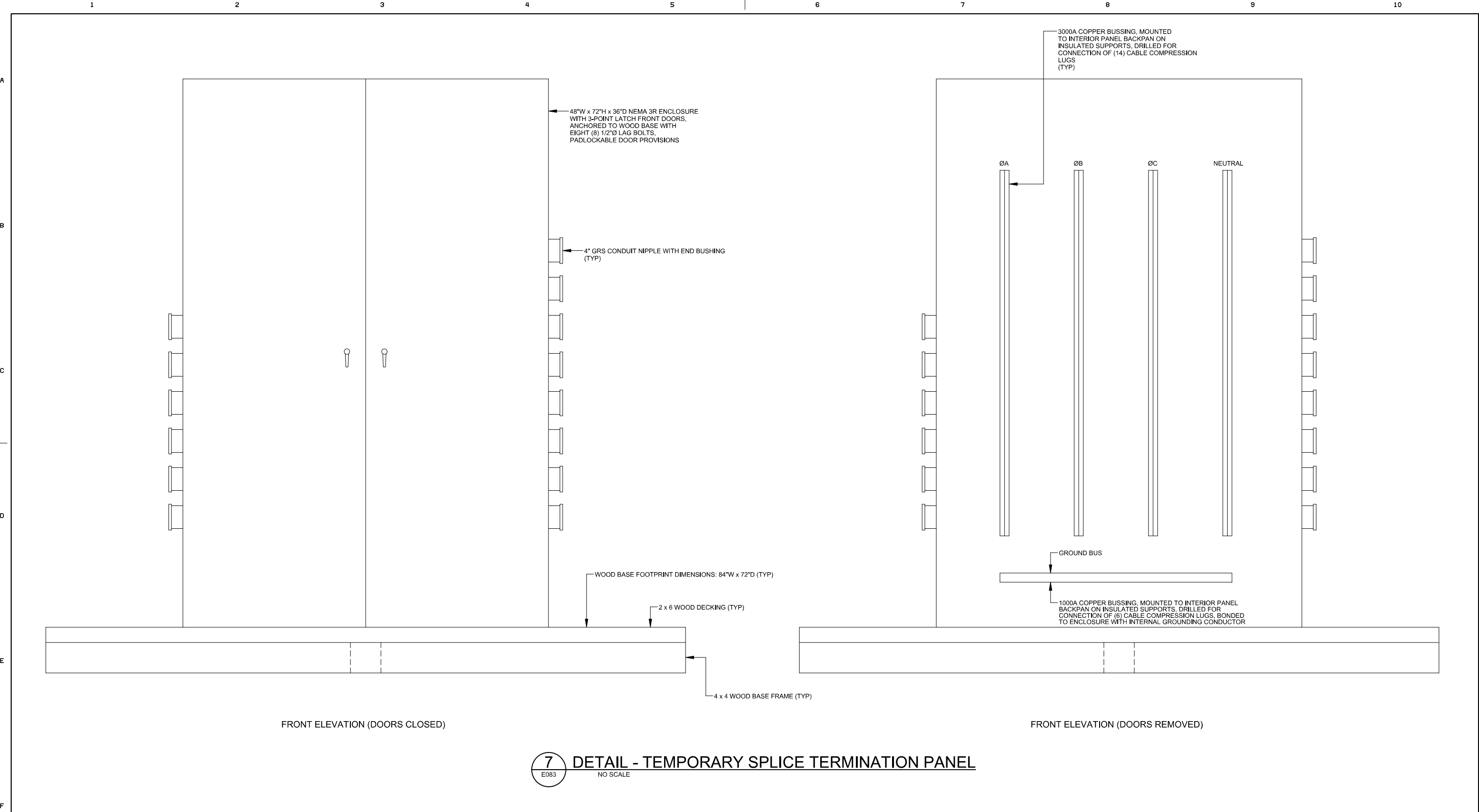


5 5 DETAIL - TRANSFORMER TFR-K SUPPLY MODIFICATION
E082 E085
NO SCALE

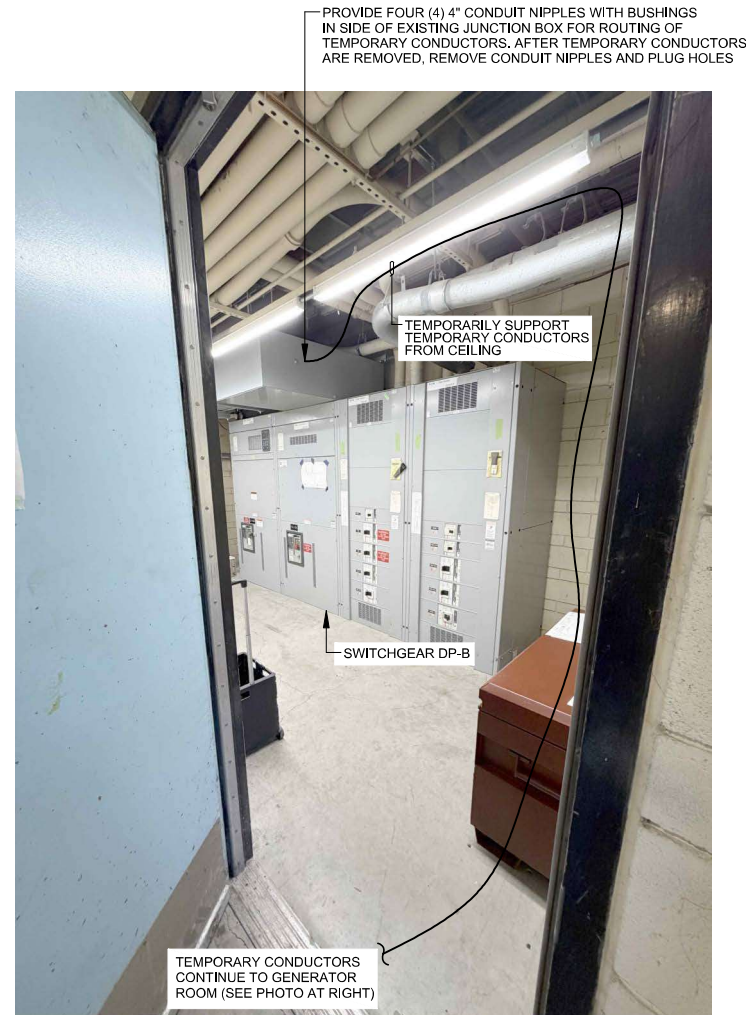


6 DETAIL - NEW TFR-K FEEDER BREAKER IN SWITCHGEAR DP-B
E085 NO SCALE

																				LINE IS 2 INCHES AT FULL SCALE IF NOT 2 INCHES, SCALE ACCORDINGLY										DESIGN DRAWN BY BEI DESIGN BY TB CHECKED BY BEI PROJ. MGR. M. NAKAMURA D. GILL OPERATIONS DIRECTOR S. DELIGHT DISTRICT ENGINEER		REVIEW PLNNG./DEVL. N/A FIELD OPS. N/A WWTP OPS. MECH./MAINT. ELECT./INSTR.		 DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515 WWTP ELECTRICAL IMPROVEMENTS - PHASE 1										E094 38 42	
																								DETAILS - 4																					
DATE										REVISIONS AND RECORD OF ISSUE										NO.		BY		CK		APP																			



			DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP	DESIGN	DRAWN BY	BEI	PLNNG./DEVL.	N/A	DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515 WWTP ELECTRICAL IMPROVEMENTS - PHASE 1	CIP NO. 24-P044		
										DESIGN BY	TB		FIELD OPS.			N/A	
										CHECKED BY	BEI	REVIEW	WWTP OPS.	MECH./MAINT.	ELECT./INSTR.	DETAILS - 5	E095 39 42
										PROJ. MGR.	M. NAKAMURA						
										D. GILL OPERATIONS DIRECTOR		SCALE	N/A	DATE	10-5-26		
										S. DELIGHT DISTRICT ENGINEER							



SWITCHGEAR DP-B ROOM



DOORWAY BETWEEN SWITCHGEAR DP-B ROOM
AND GENERATOR ROOM



EXTERIOR FROM GENERATOR ROOM ROLL-UP DOOR TO TEMPORARY TERMINATION SPLICE PANEL

8

E083

DETAIL - TEMPORARY CONDUCTOR ROUTING FROM SWITCHGEAR DP-B TO TEMPORARY SPLICE TERMINATION PANEL

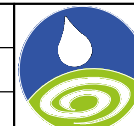
NO SCALE

LINE IS 2 INCHES
AT FULL SCALE

IF NOT 2 INCHES, SCALE ACCORDINGLY

DESIGN	DRAWN BY	BEI
	DESIGN BY	TB
	CHECKED BY	BEI
RECOM'D	PROJ. MGR.	M. NAKAMURA
		D. GILL
		OPERATIONS DIRECTOR
		S. DELIGHT
		DISTRICT ENGINEER

REVIEW	PLNNG./DEVL. N/A	
	FIELD OPS. N/A	
	WWTP OPS.	
	MECH./MAINT.	
	ELECT./INSTR.	
	SCALE N/A	DATE 10-5-26



DUBLIN SAN RAMON SERVICES DISTRICT
7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515
WWTP ELECTRICAL IMPROVEMENTS - PHASE 1

CIP NO. 24-P044

E096

40	42
----	----

DETAILS - 6



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

1

2

3

4

5

6

7

8

9

10

A

B

C

D

E

F

TEMPORARY CONDUCTORS OUT TO OUTDOOR
TEMPORARY SPLICE TERMINATION PANEL



DISCONNECT EXISTING SWITCHGEAR DP-C CONDUCTORS FROM EXISTING SWITCHGEAR DP-A AND PULL BACK TO THIS LOCATION FOR TEMPORARY SPLICE CONNECTION TO TEMPORARY CONDUCTORS ROUTED TO TEMPORARY SPLICE TERMINATION PANEL. EXISTING OVERHEAD CABLE TRAY SHALL BE TEMPORARILY DISASSEMBLED AS REQUIRED TO FACILITATE PULLING EXISTING CONDUCTORS BACK, RETURNED TO ORIGINAL INSTALLATION CONDITION AFTER RE-INSTALLATION AND CONNECTION OF EXISTING CONDUCTORS TO NEW SWITCHGEAR DP-A

TEMPORARILY SPLICE TEMPORARY CONDUCTORS TO EXISTING SWITCHGEAR DP-C CONDUCTORS AT THIS LOCATION.

TEMPORARY CONDUCTORS (TYP)

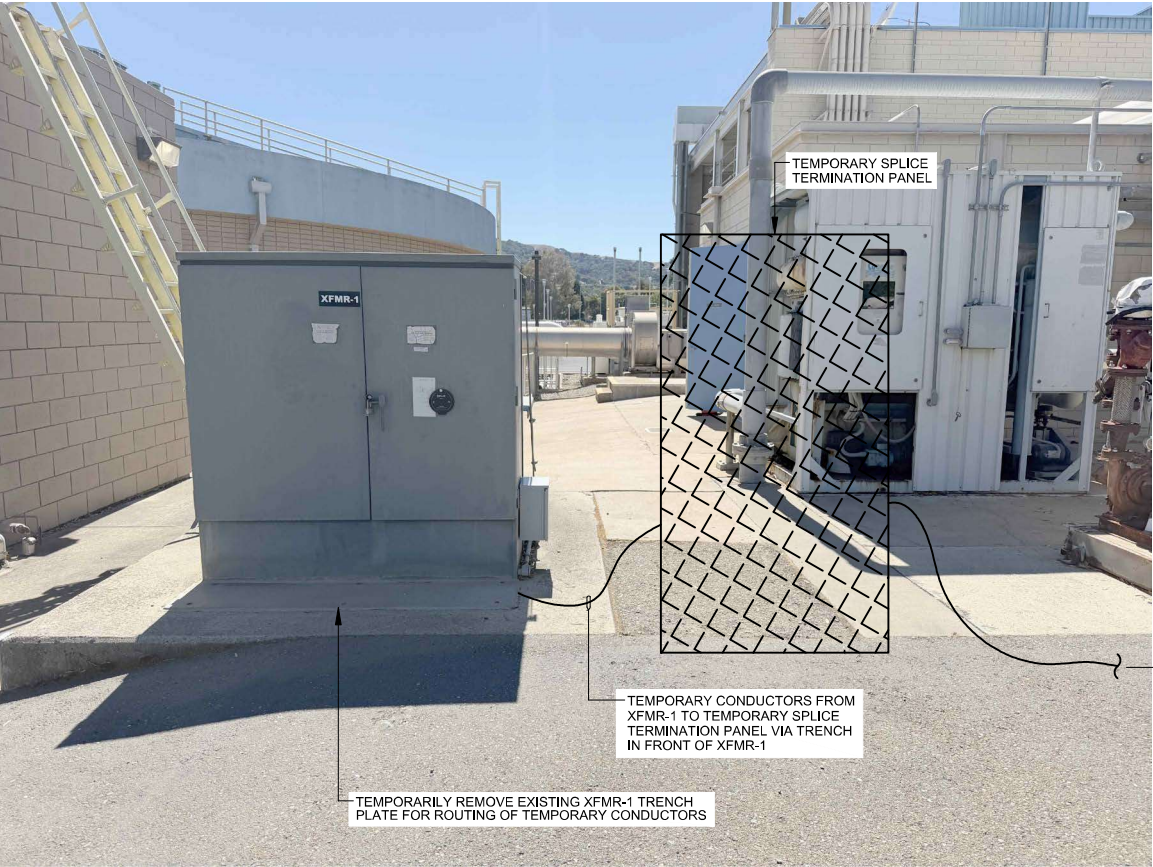
9

DETAIL - TEMPORARY CONDUCTOR CONNECTIONS IN BUILDING A HALLWAY

E083

NO SCALE

Beecher Engineering, Inc. REGISTERED PROFESSIONAL ENGINEER E014712 TODD A. BEECHER EXPIRATION DATE 12/31/2025 STATE OF CALIFORNIA OCTOBER 5, 2026		LINE IS 2 INCHES AT FULL SCALE IF NOT 2 INCHES, SCALE ACCORDINGLY		DESIGN		DRAWN BY BEI		PLNNG./DEVL. N/A		DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515 WWTP ELECTRICAL IMPROVEMENTS - PHASE 1 DETAILS - 7		CIP NO. 24-P044	
				DESIGN BY TB		FIELD OPS. N/A							
				CHECKED BY BEI		WWTP OPS.							
				PROJ. MGR. M. NAKAMURA		MECH./MAINT.							
				RECOM'D		D. GILL OPERATIONS DIRECTOR		ELECT./INSTR.				E097 4142	
				S. DELIGHT DISTRICT ENGINEER		SCALE N/A		DATE 10-5-26					
DATE		REVISIONS AND RECORD OF ISSUE				NO.		BY		CK		APP	



10 DETAIL - TEMPORARY SPLICE TERMINATION PANEL CONNECTIONS
E083 NO SCALE



11 DETAIL - NEW TERMINAL BOX FOR MCC-E LOADS
E085 NO SCALE

Beecher Engineering, Inc.			LINE IS 2 INCHES AT FULL SCALE IF NOT 2 INCHES, SCALE ACCORDINGLY				DESIGN	DRAWN BY	BEI	PLNNG./DEVL.	N/A	DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568 (925) 828-0515 WWTP ELECTRICAL IMPROVEMENTS - PHASE 1	CIP NO. 24-P044
			DESIGN BY	TB	FIELD OPS.	N/A							
							CHECKED BY	BEI	REVIEW	WWTP OPS.	MECH./MAINT.	DETAILS - 8	E098 42 42
								PROJ. MGR.		M. NAKAMURA			
							D. GILL OPERATIONS DIRECTOR S. DELIGHT DISTRICT ENGINEER	SCALE	N/A	DATE	10-5-26		
								DATE	REVISIONS AND RECORD OF ISSUE			NO.	BY